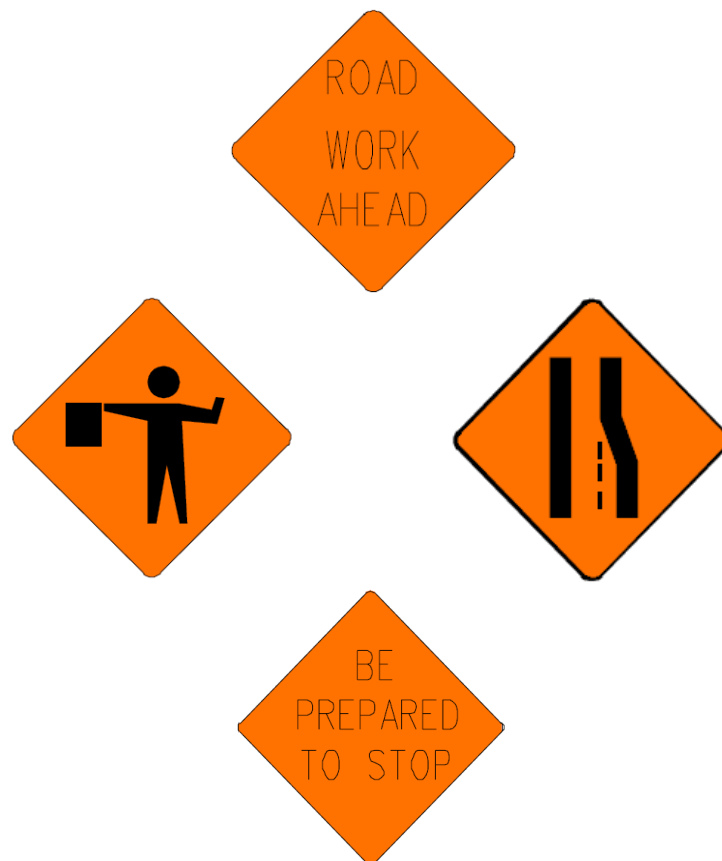


1999 – 2003 Virginia Work Zone Crash Facts



March, 2006

Introduction

The Virginia Department of Transportation is pleased to present this **1999 – 2003 Virginia Work Zone Crash Facts** report. This document provides a comprehensive overview of traffic crashes occurring in work zones throughout the Commonwealth of Virginia between 1999 and 2003.

For the purpose of this report, a work zone crash is defined as a crash where the roadway defect is coded as “road under repair” on the Police Crash Reports (FR-300). This information is entered as roadway defect record type “4” in HTRIS. There are 4,618 work zone crashes identified in HTRIS for the years 1999 through 2003. Crashes that occurred in work zones on VDOT maintained routes (including interstate, primary and secondary routes) as well as on roads maintained at the local level (by Arlington and Henrico Counties, and various cities) are included in this report.

The Police Crash Reports (FR-300s) from 1999 through 2003 for all work zone crashes were reviewed in order to identify, when possible, the area of the temporary traffic control zone where the crash occurred (advance warning, transition, buffer, activity, and termination area). A location within the work zone for each work zone crash was recorded and this additional data was used in conjunction with the crash data from HTRIS to generate the graphs and tables in this report.

Based on a query of the HTRIS database, there are 4,618 crashes coded as roadway defect record type “4” (road under repair). A total of 4,633 FR-300s were retrieved from the files for work zone crashes. There are 15 additional work zone crashes based on the FR-300s (the document numbers on these 15 reports do not correspond to document numbers in HTRIS, possibly because they are supplemental reports). These 15 additional crashes were included in the graphs and tables pertaining to the area within the work zone.

Please be advised that, under Title 23 United States Code – Section 409, this crash information cannot be used in discovery or as evidence in a Federal or State court proceeding or considered for any other purposes in any action for damages against VDOT or the State of Virginia arising from any occurrence at locations identified. The data in this report is intended for training purposes, for public relations purposes especially in conjunction with National Work Zone Awareness Week, and for Strategic Highway Safety Plan development.

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Appendix

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Glossary

Fatal crash: Crash which results in one or more fatalities.

Fatality: Person who dies as a result of a traffic crash within 30 days of the crash.

HTRIS: VDOT's Highway Traffic Records Information System.

Injury crash: Crash which results in no fatalities but one or more persons are injured.

Pedestrian: Person on foot or using non-motorized means of travel (e.g.: bicycle, skates). This includes flaggers and highway workers in a work zone.

Pedestrian fatality: Pedestrian who dies as a result of a traffic crash within 30 days of the crash.

Pedestrian injury: Pedestrian who is injured as a result of a traffic crash.

Property damage crash: Crash which results in no fatalities or injuries, but there is property damage of at least \$1,000.

Vehicular fatality: Driver or passenger in a vehicle involved in a traffic crash who dies as a result of the crash within 30 days of the crash.

Vehicular injury: Driver or passenger in a vehicle who is injured as a result of a traffic crash.

VDOT District: VDOT divides the state into nine districts (summarized below), each of which oversees maintenance and construction on the state-maintained highways, bridges and tunnels in its region.

1. **Bristol:** Bland, Buchanan, Dickenson, Grayson, Lee, Russell, Scott, Smyth, Tazewell, Washington, Wise, and Wythe Counties.
2. **Salem:** Bedford, Botetourt, Carroll, Craig, Floyd, Franklin, Giles, Henry, Montgomery, Patrick, Pulaski, and Roanoke Counties.
3. **Lynchburg:** Amherst, Appomattox, Buckingham, Campbell, Charlotte, Cumberland, Halifax, Nelson, Pittsylvania, and Prince Edward Counties.
4. **Richmond:** Amelia, Brunswick, Charles City, Chesterfield, Dinwiddie, Goochland, Hanover, Henrico, Lunenburg, Mecklenburg, New Kent, Nottoway, Powhatan, and Prince George Counties.
5. **Hampton Roads:** Accomack, Greensville, Isle of Wight, James City, Northampton, Southampton, Surry, Sussex, and York Counties; cities of Chesapeake, Emporia, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg.
6. **Fredericksburg:** Caroline, Essex, Gloucester, King George, King and Queen, King William, Lancaster, Mathews, Middlesex, Northumberland, Richmond, Spotsylvania, Stafford, and Westmoreland Counties.
7. **Culpeper:** Albemarle, Culpeper, Fauquier, Fluvanna, Greene, Louisa, Madison, Orange, and Rappahannock Counties.
8. **Staunton:** Alleghany, Augusta, Bath, Clarke, Frederick, Highland, Page, Rockbridge, Rockingham, Shenandoah, and Warren Counties.
9. **Northern Virginia:** Arlington, Fairfax, Loudoun, and Prince William Counties.

Temporary traffic control zone: an area of a highway where road user conditions are changed because of a work zone or incident by the use of temporary traffic control devices, flaggers, police, or other authorized personnel. (See Figure I on page vi.)

Work zone: An area of a highway or roadway with construction, maintenance, or utility work activities.

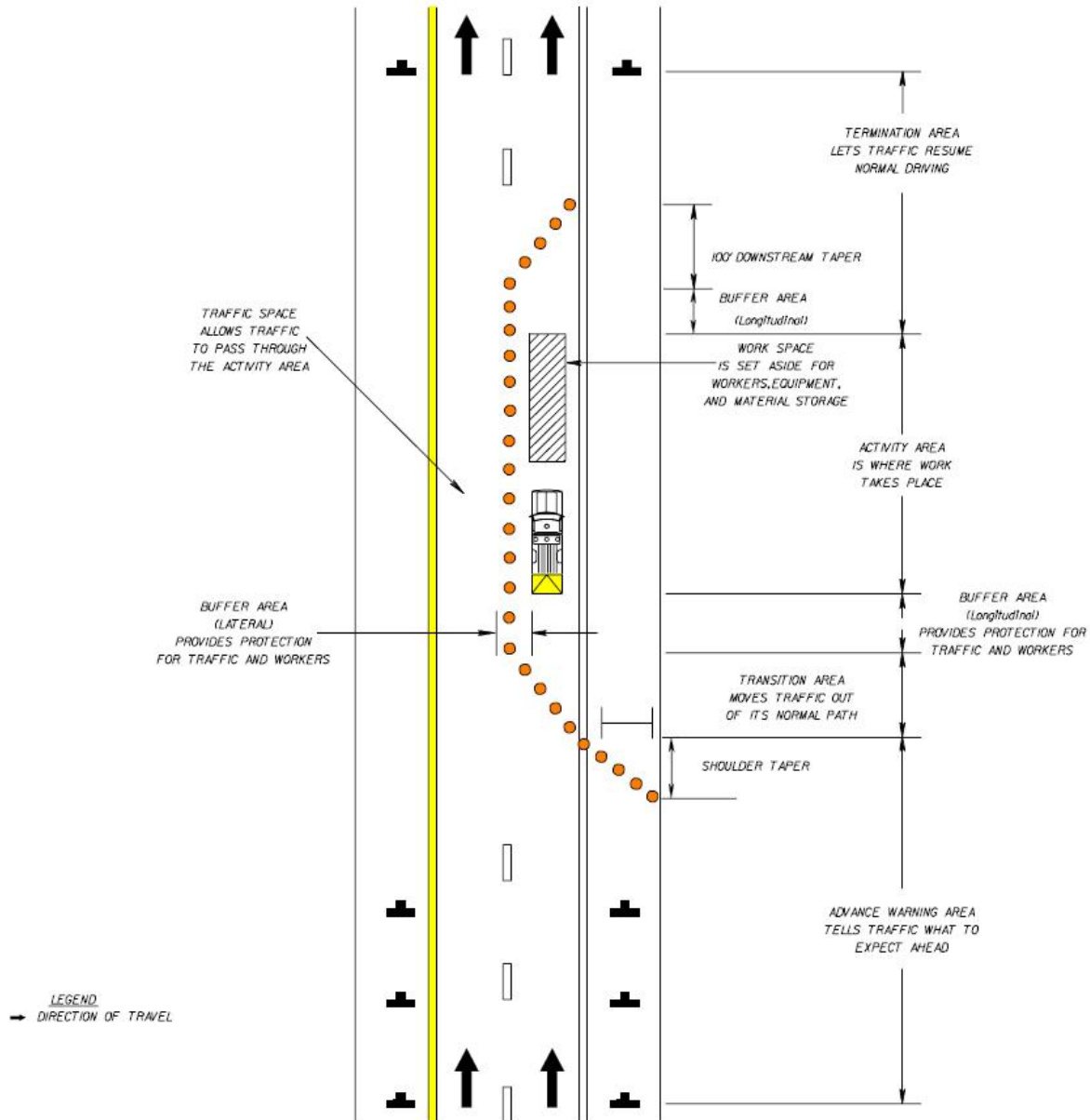


Figure I: Component Parts of a Temporary Traffic Control Zone

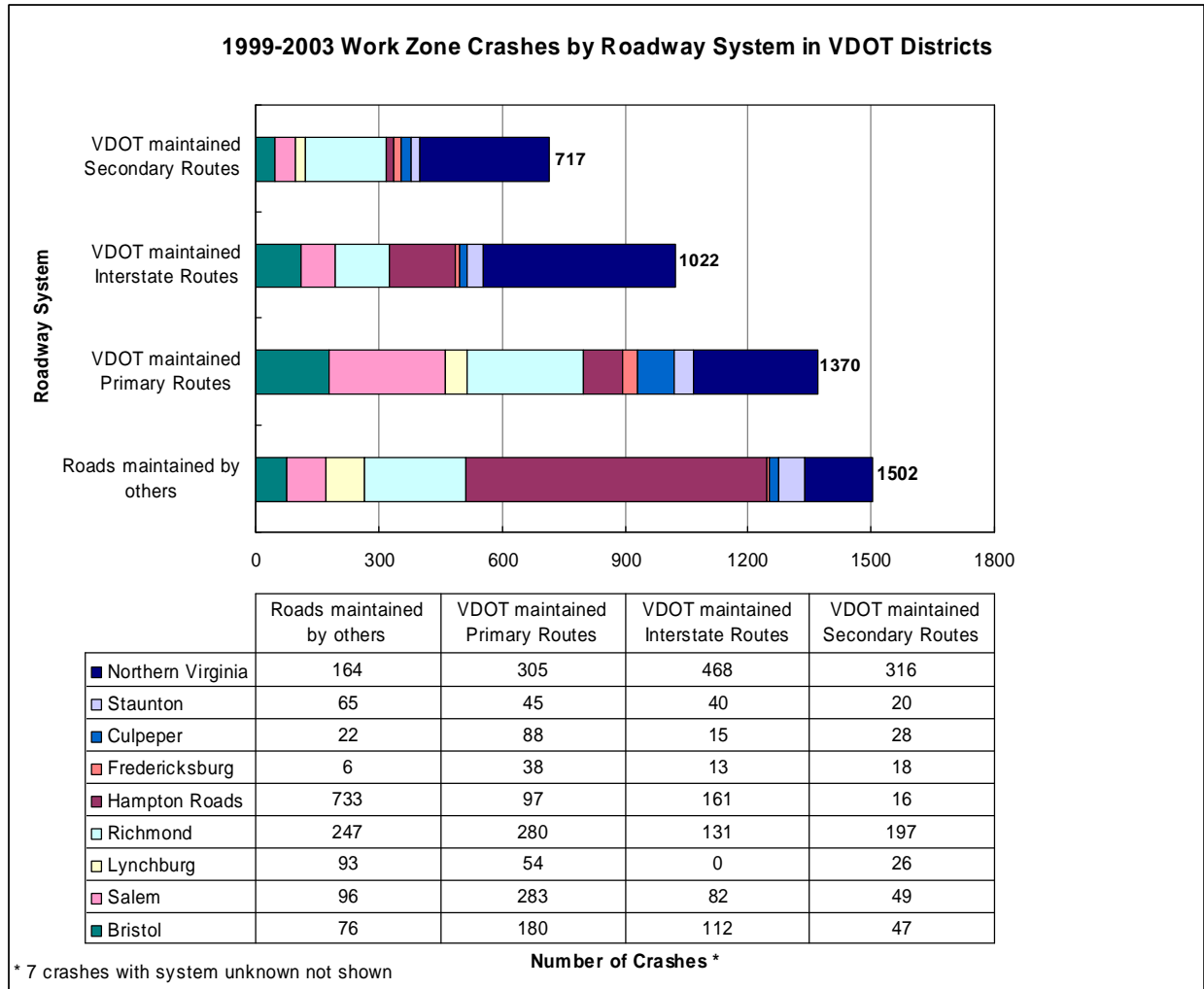
Advance Warning Area: the section of highway where road users are informed about the upcoming work zone or incident area.

Transition Area: the section of highway where road users are redirected out of their normal path.

Buffer Area: the lateral and/or longitudinal clear space that separates road user flow from the work space or an unsafe area, and might provide some recovery space for an errant vehicle.

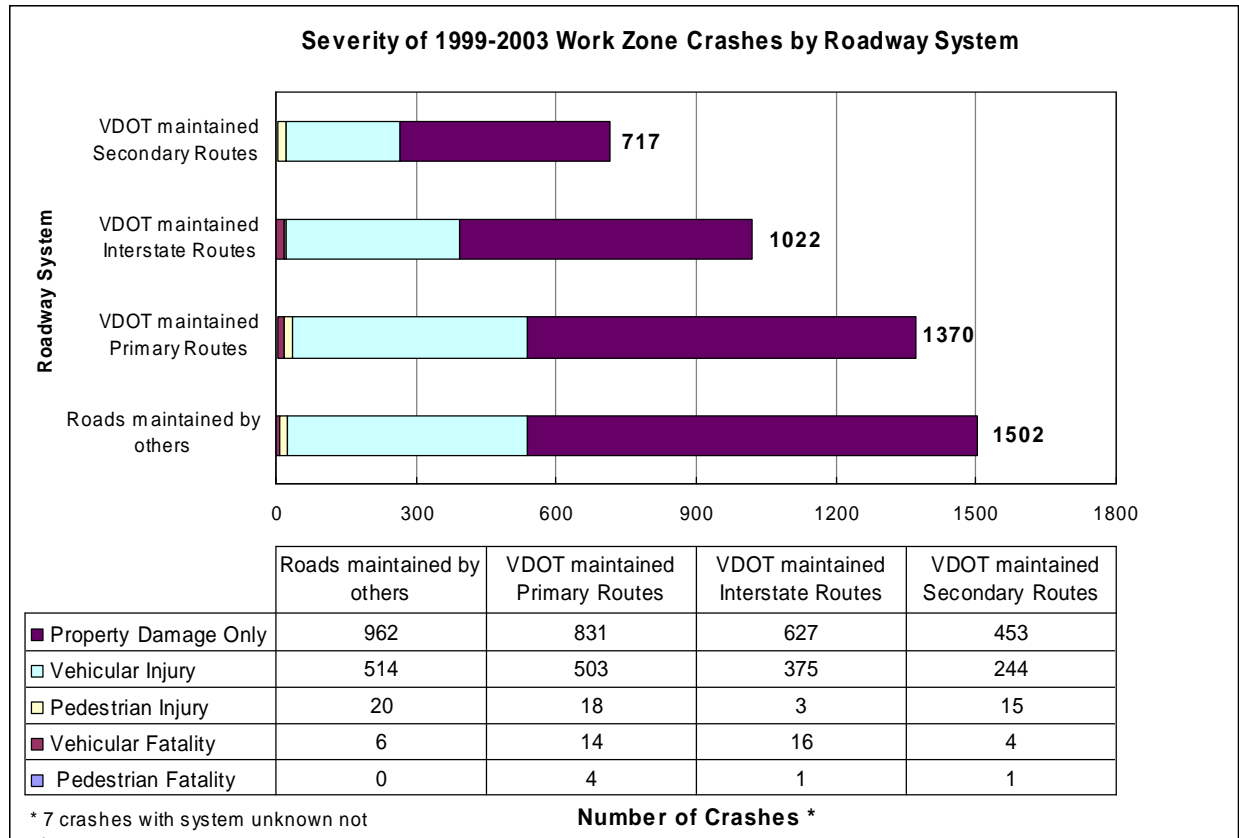
Activity Area: the section of the highway where the work activity takes place. It is comprised of the work space, and the traffic space.

Termination Area: the section of highway where road users are returned to their normal path.

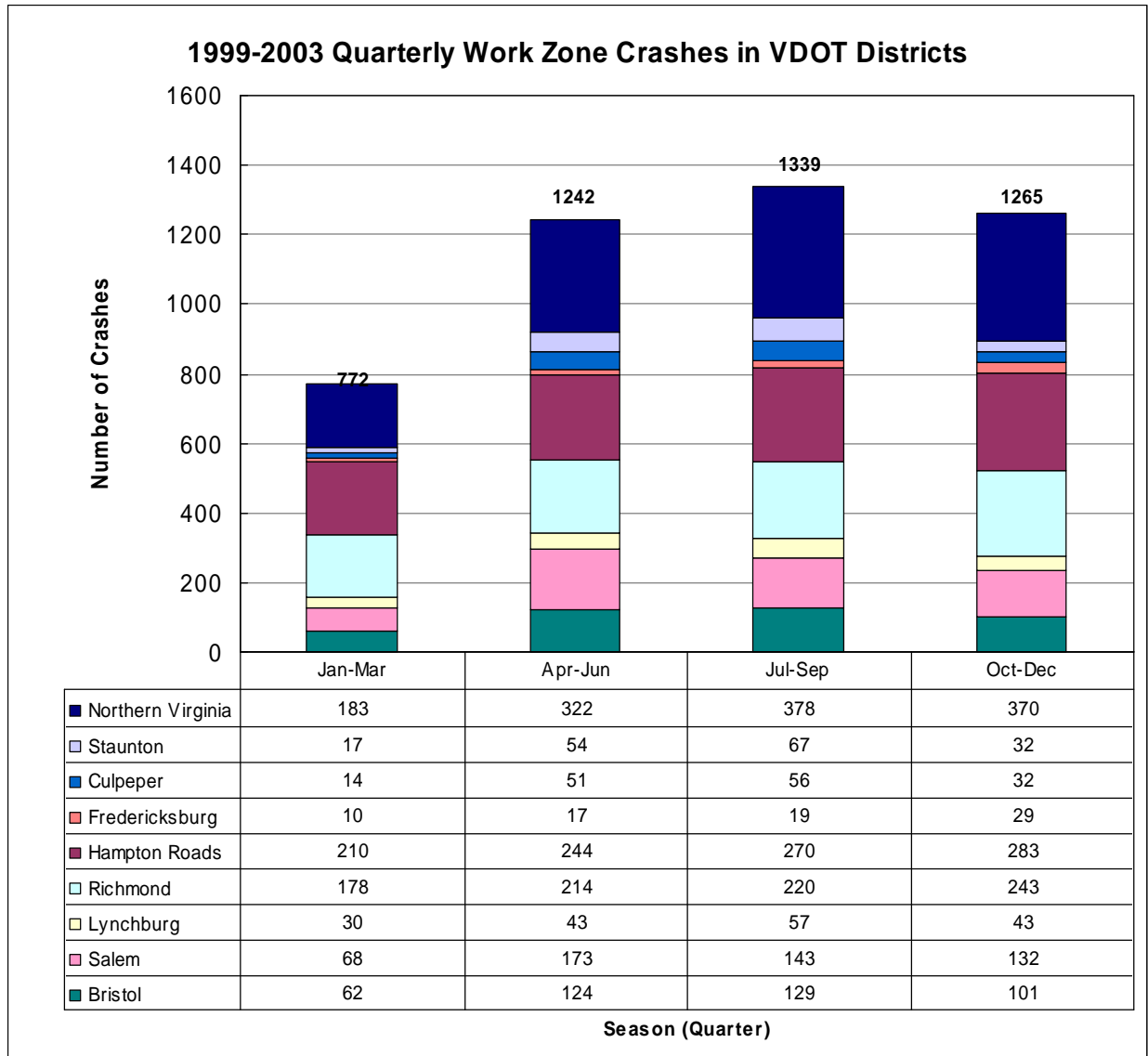


This chart contains the summary of 4,618 crashes that occurred within a work zone between January 1, 1999 and December 31, 2003. The crashes are grouped by the Roadway System on which the crash occurred (Interstate Route, State Primary Route, State Secondary Route, and Roads maintained by others). The data is presented as 5-year statewide totals for each Roadway System. These are further classified by District.

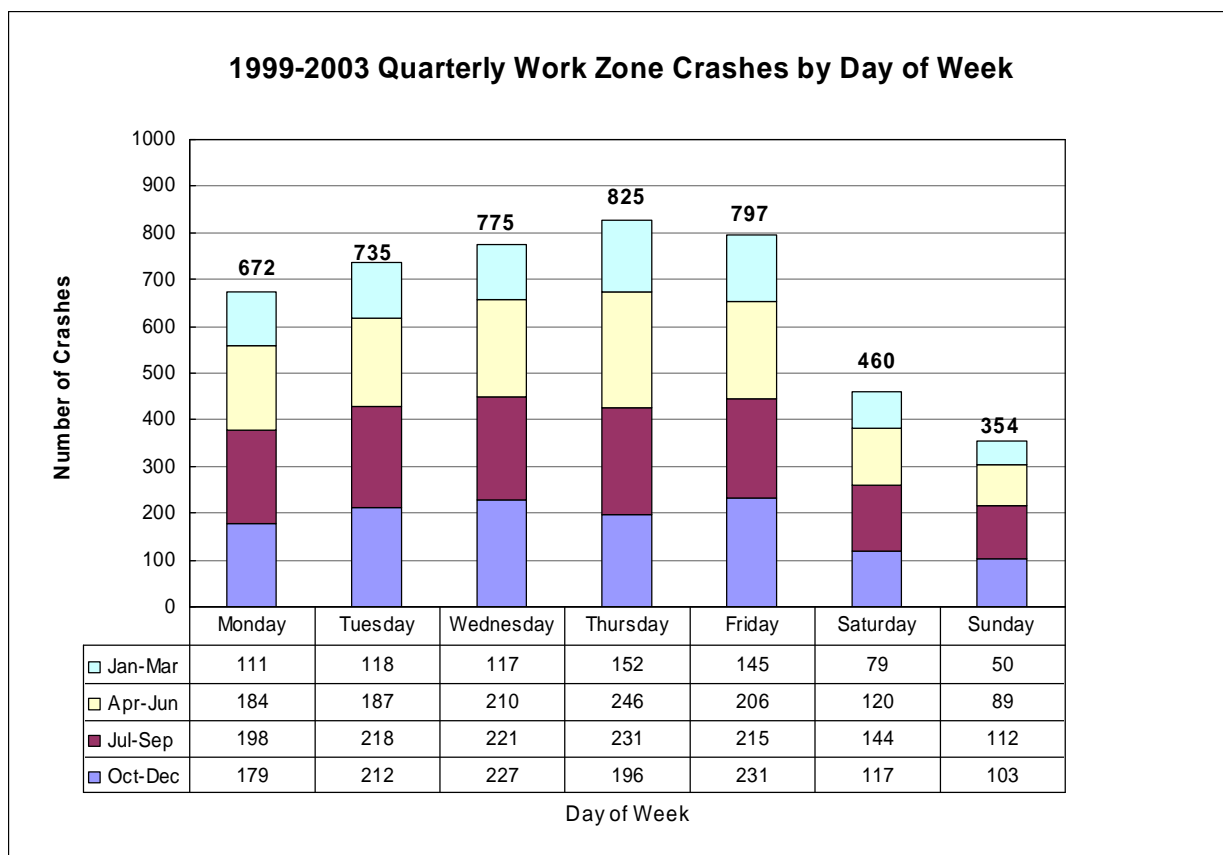
Note: Lynchburg District does not maintain any Interstate Route mileage.



This chart contains the summary of 4,618 crashes that occurred within a work zone between January 1, 1999 and December 31, 2003. The crashes are grouped by the Roadway System on which the crash occurred (Interstate Route, State Primary Route, State Secondary Route, and Roads maintained by others). The data is presented as 5-year statewide totals for each Roadway System. These are further classified by severity of the crash (Property Damage Only, Vehicular or Pedestrian Injury crash, and Vehicular or Pedestrian Fatality crash).

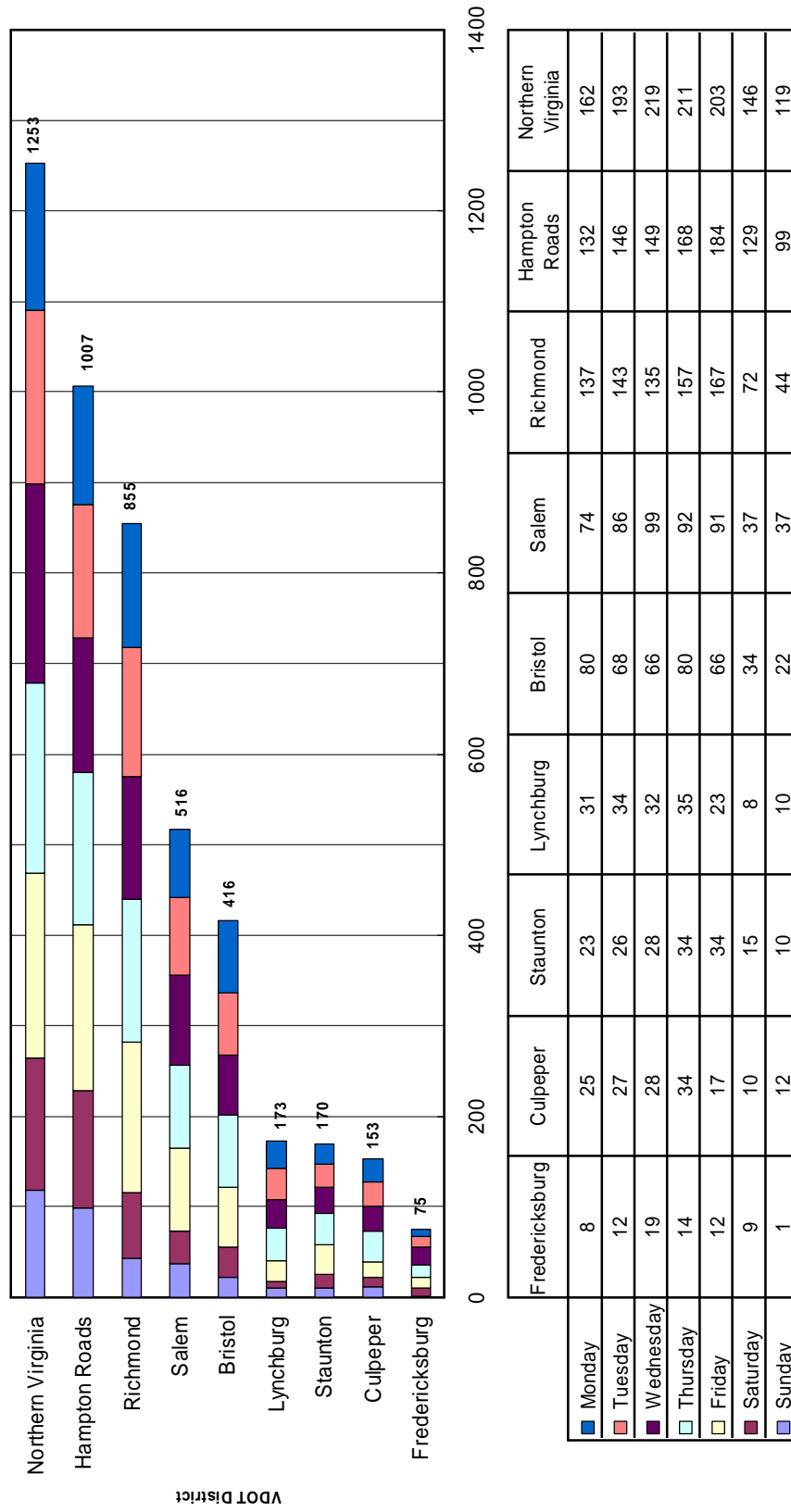


This chart contains the summary of 4,618 crashes that occurred within a work zone between January 1, 1999 and December 31, 2003. The crashes are grouped by the Seasonal Quarter (January - March, April - June, July - September, and October - December) in which the crash occurred. The data is presented as 5-year statewide totals for each Quarter. These are further classified by District.

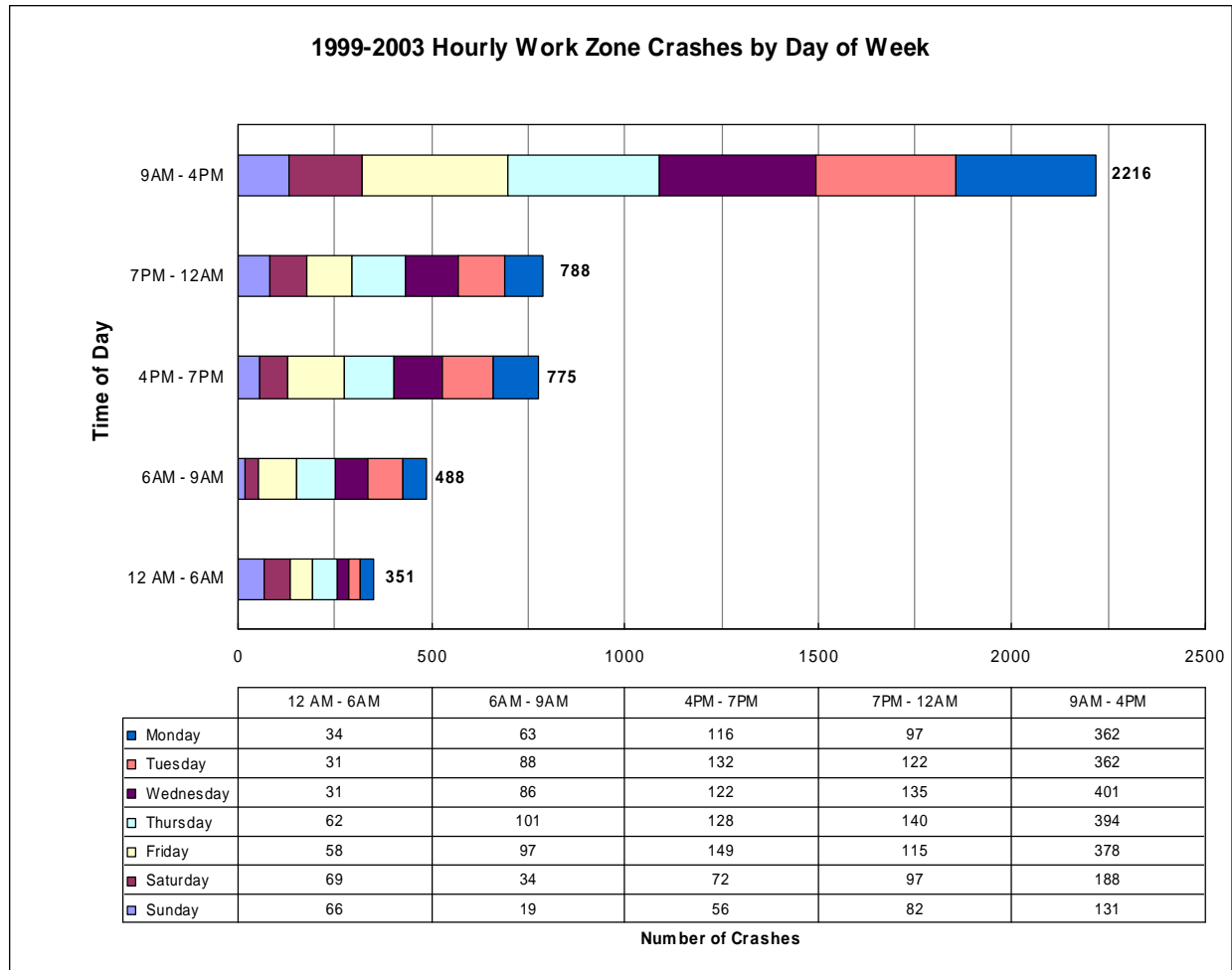


This chart contains the summary of 4,618 crashes that occurred within a work zone between January 1, 1999 and December 31, 2003. The crashes are grouped by the Day of Week on which the crash occurred. The data is presented as 5-year statewide totals for each Day of Week. The data is further classified by the Seasonal Quarter (January - March, April - June, July - September, and October - December) in which the crash occurred.

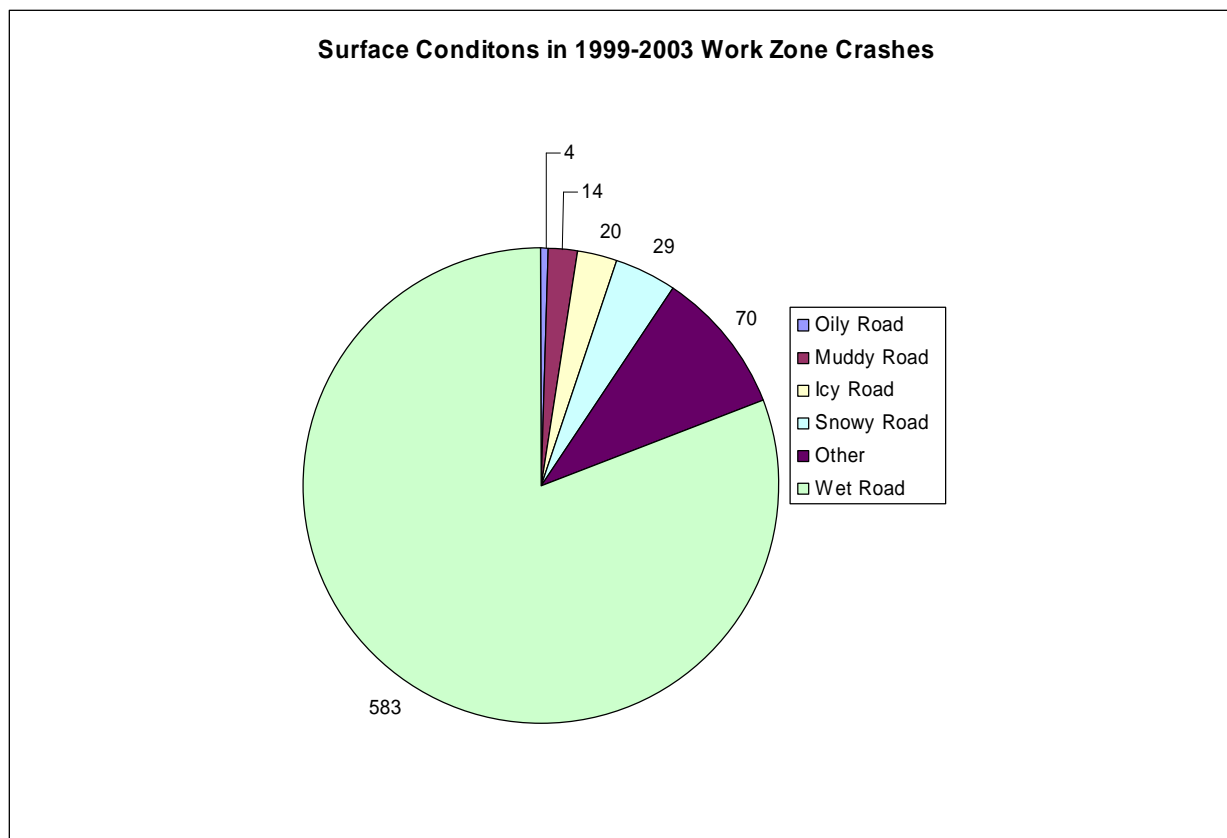
1999-2003 Work Zone Crashes in VDOT Districts by Day of Week



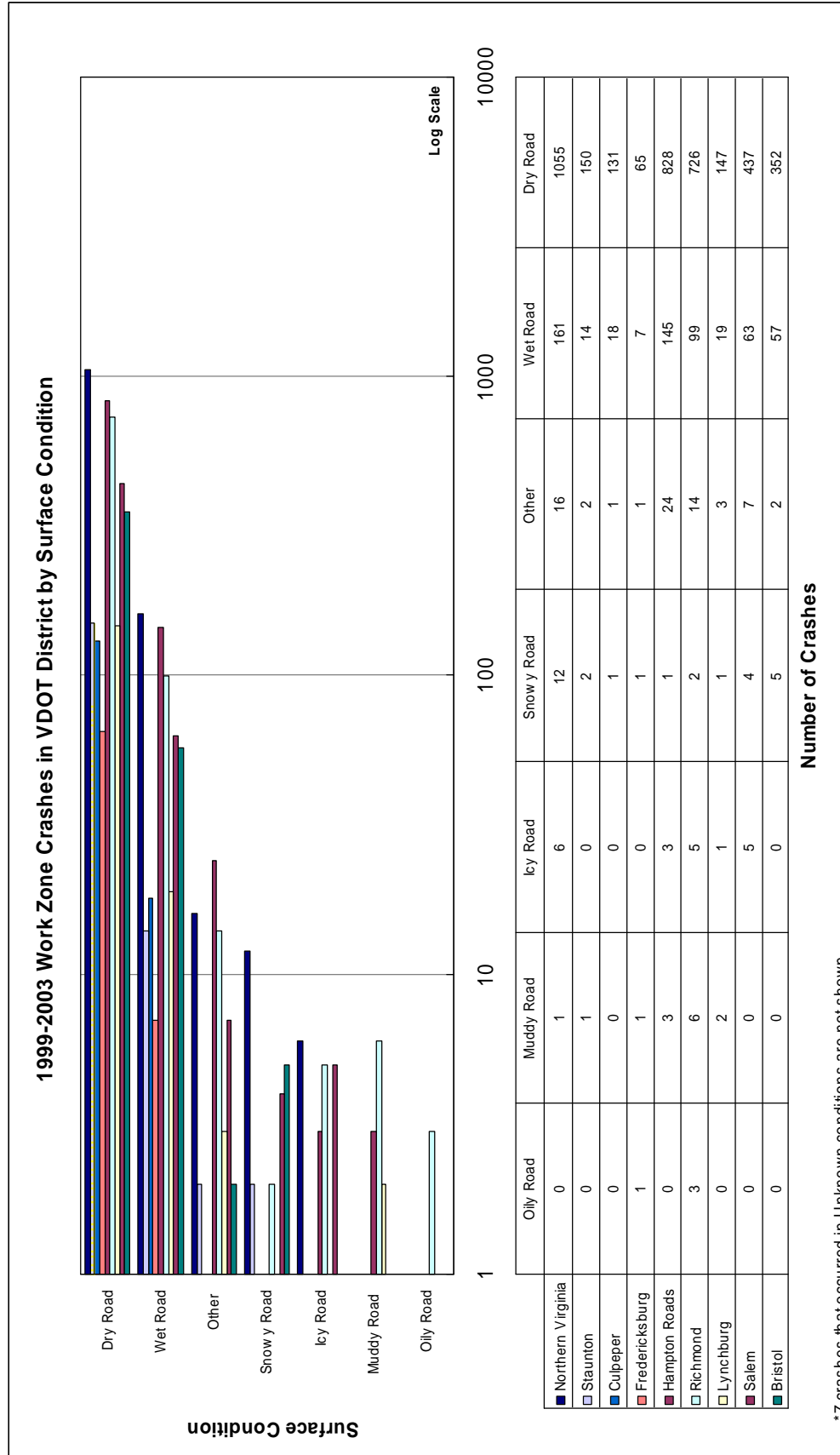
The chart on the previous page contains the summary of 4,618 crashes that occurred within a work zone between January 1, 1999 and December 31, 2003. The crashes are grouped by the VDOT District in which the crash occurred. The data is presented as 5-year statewide totals for each District. These are further classified by the Day of Week on which the crash occurred.



This chart contains the summary of 4,618 crashes that occurred within a work zone between January 1, 1999 and December 31, 2003. The crashes are grouped by the Time of Day when the crash occurred. The 24-hours of the day are divided into five time periods (12 AM to 6 AM, 6 AM to 9 AM, 9 AM to 4 PM, 4 PM to 7 PM, and 7 PM to 12 AM). The data is presented as 5-year statewide totals for each time period. The data is further classified by the Day of Week on which the crash occurred.



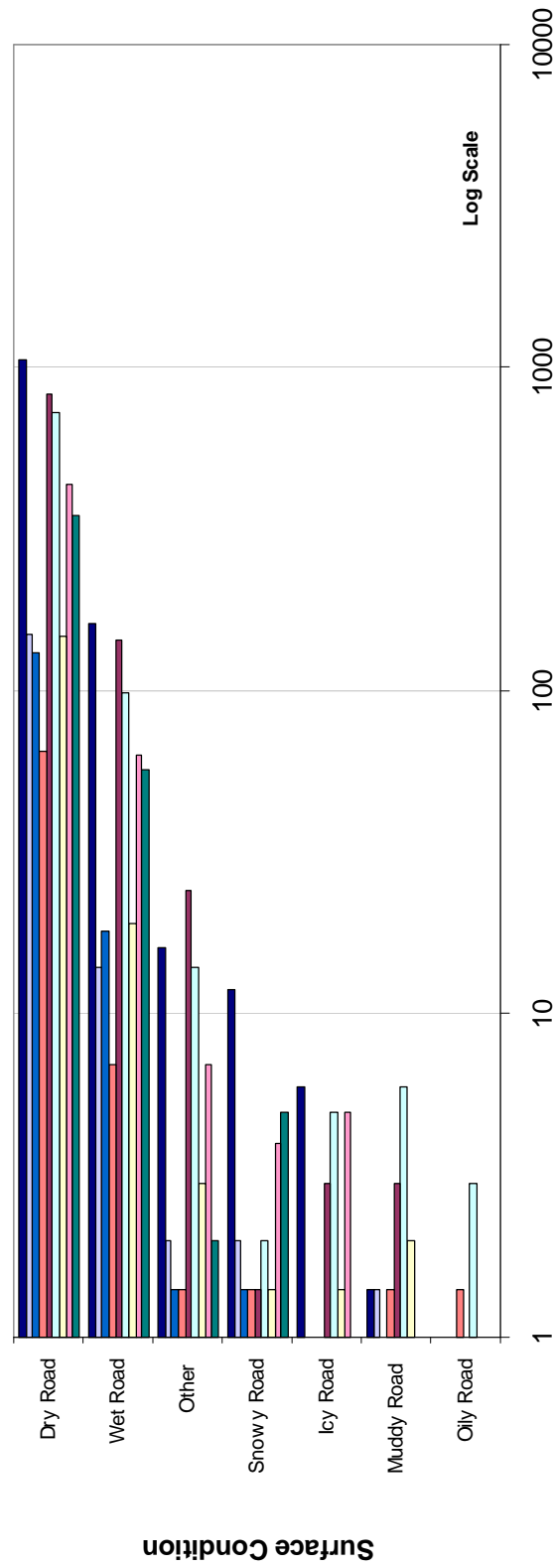
This chart contains the summary of 4,618 crashes that occurred within a work zone between January 1, 1999 and December 31, 2003. The crashes are grouped by the Surface Condition of the roadway noted on the FR-300 when the crash occurred. A majority of the work zone crashes (3,819 or 84%) occurred on dry roads. The Dry Road crashes **ARE NOT** shown in the graph above. The data is presented as 5-year statewide totals for each surface condition.



The chart on the previous page contains the summary of 4,618 crashes that occurred within a work zone between January 1, 1999 and December 31, 2003. The crashes are grouped by the Surface Condition of the roadway when the crash occurred (Dry, Wet, Snowy, Icy, Muddy, Oily, or Other). The data is presented as 5-year statewide totals for each surface condition. These are further classified by the VDOT District in which the crash occurred.

Note: Due to the large variation in numbers represented by this bar graph a logarithmic scale was used to display the number of crashes. The length of the bar for each surface condition needs to be read using the logarithmic scale shown on the x-axis of the graph.

1999-2003 Work Zone Crashes in VDOT Districts by Surface Condition



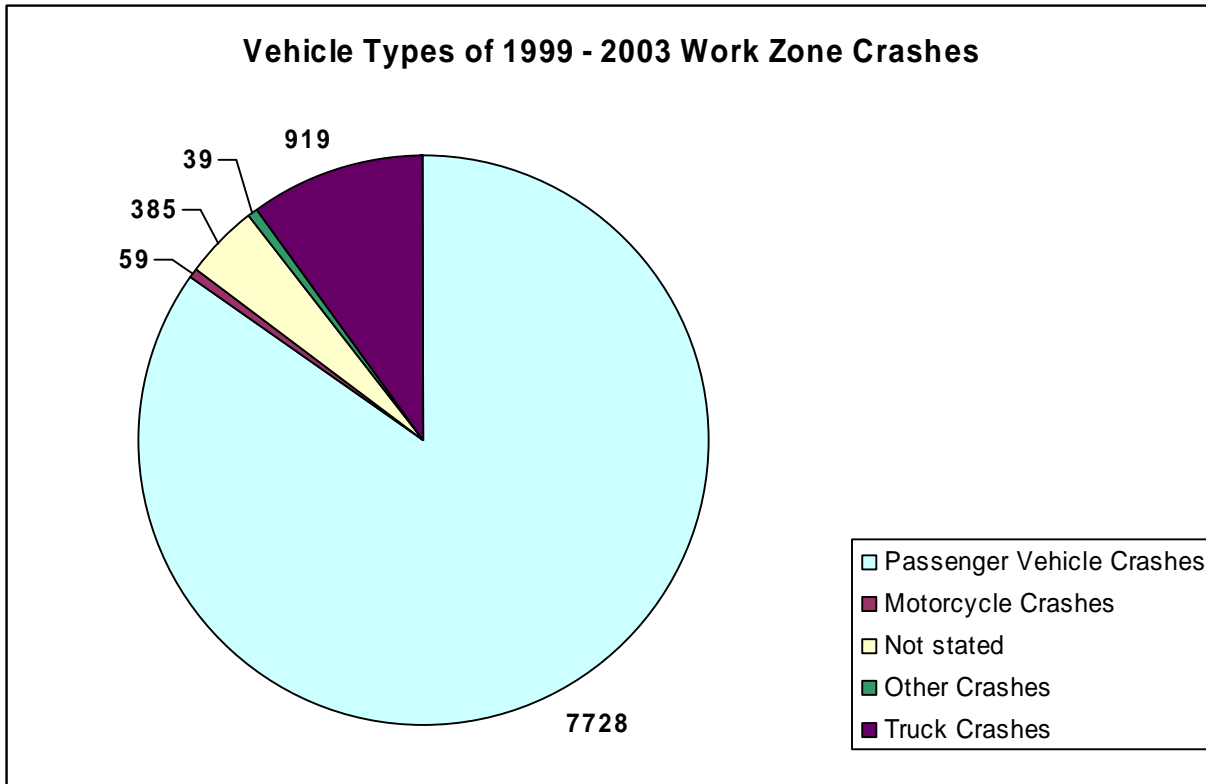
	Oily Road	Muddy Road	Icy Road	Snowy Road	Other	Wet Road	Dry Road
Northern Virginia	0	1	6	12	16	161	1055
Staunton	0	1	0	2	2	14	150
Culpeper	0	0	0	1	1	18	131
Fredericksburg	1	1	0	1	1	7	65
Hampton Roads	0	3	3	1	24	145	828
Richmond	3	6	5	2	14	99	726
Lynchburg	0	2	1	1	3	19	147
Salem	0	0	5	4	7	63	437
Bristol	0	0	0	5	2	57	352

Number of Crashes

*7 crashes that occurred in Unknown conditions are not shown

The chart on the previous page contains the summary of 4,618 crashes that occurred within a work zone between January 1, 1999 and December 31, 2003. The crashes are grouped by the Surface Condition of the roadway when the crash occurred (Dry, Wet, Snowy, Icy, Muddy, Oily, or Other). The data is presented as 5-year statewide totals for each surface condition. These are further classified by the year in which the crash occurred.

Note: Due to the large variation in numbers represented by this bar graph a logarithmic scale was used to display the number of crashes. The length of the bar for each surface condition needs to be read using the logarithmic scale shown on the x-axis of the graph.

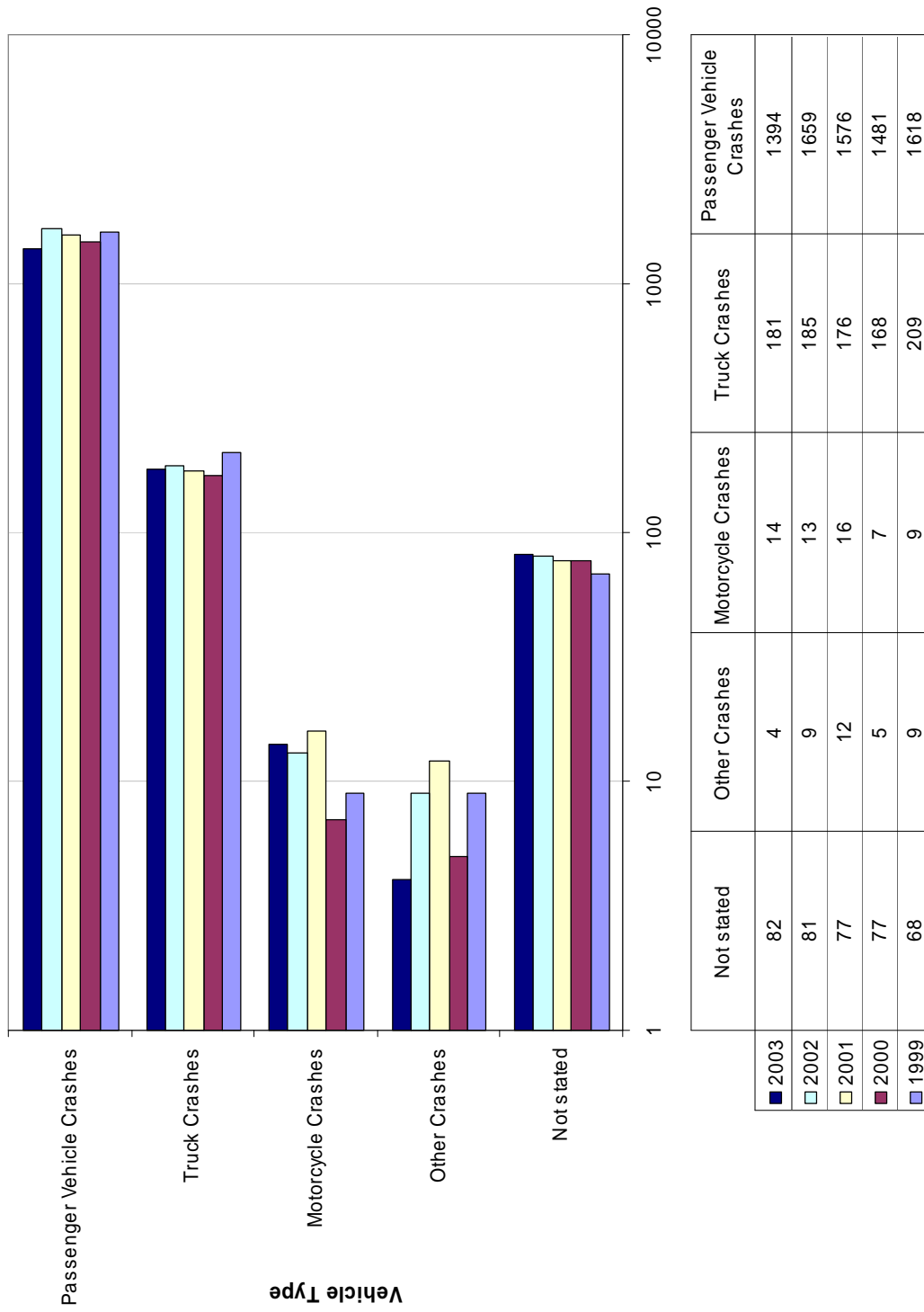


This chart contains a summary of the 9,130 vehicles involved in work zone crashes (not the number of crashes) occurring between January 1, 1999 and December 31, 2003. The crashes are grouped by the Vehicle Type and the number of vehicles involved in each crash. The data is presented as 5-year statewide totals for each vehicle type.

The sixteen Vehicle Type Descriptions used in HTRIS are re-grouped as follows:

1. Passenger Vehicle – includes Passenger Car, Passenger Truck, Pickup, Bronco, Jeep, SUV, and Van
2. Motorcycle
3. Truck – includes Straight Truck, Flatbed, Dump Truck, Tractor Truck, Tractor-Trailer, Tractor-Double Trailer, Motor Home, Recreational Vehicle, Oversize Vehicle, Earthmover, Road Equipment, Emergency Vehicle, School Bus, City Transit Bus, Privately Owned Bus, Church Bus, and Commercial Passenger Bus
4. Other – includes Bicycle, Moped, Farm Equipment, Go-Cart, Golf Cart, and Dirt Bike

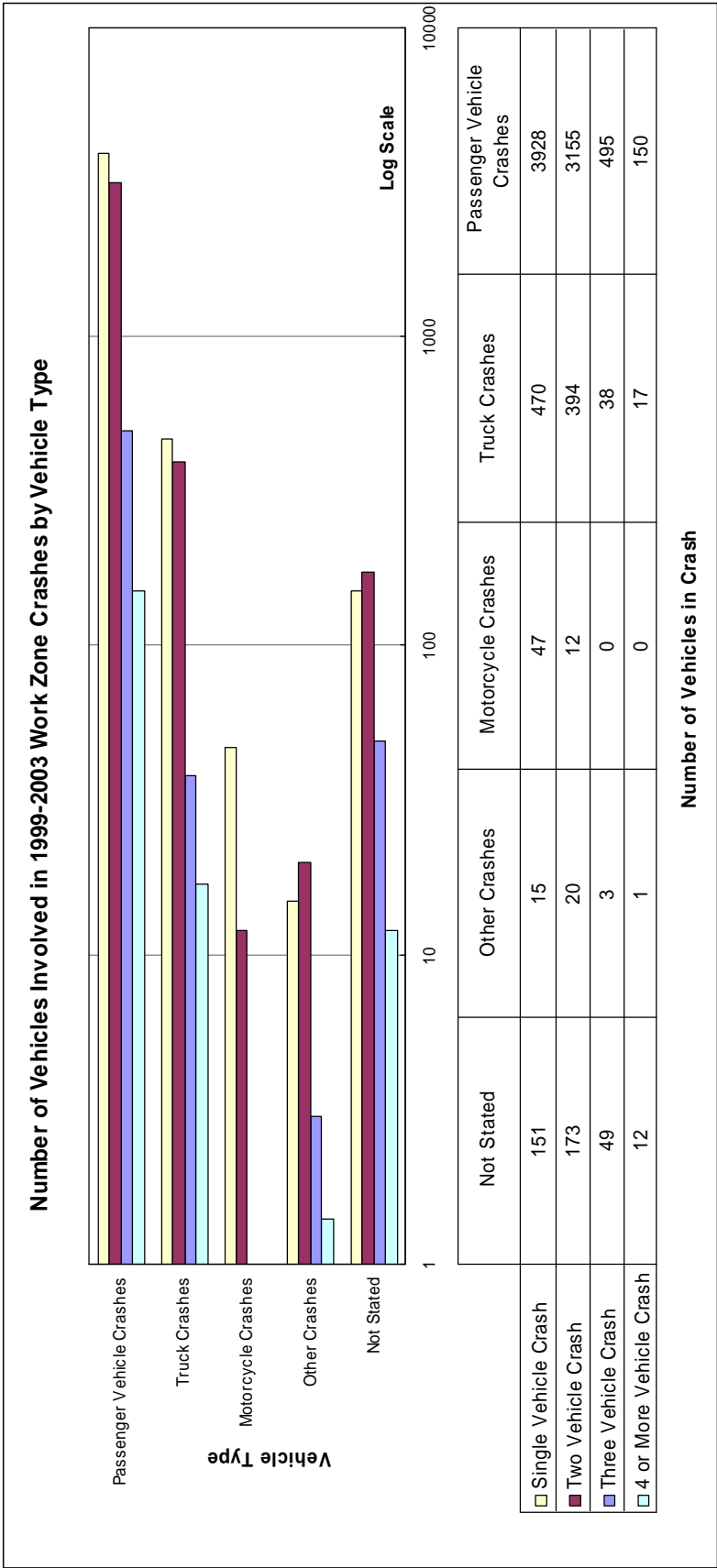
Number of Vehicles in 1999-2003 Work Zone Crashes by Vehicle Type



Number of Vehicles in Crash

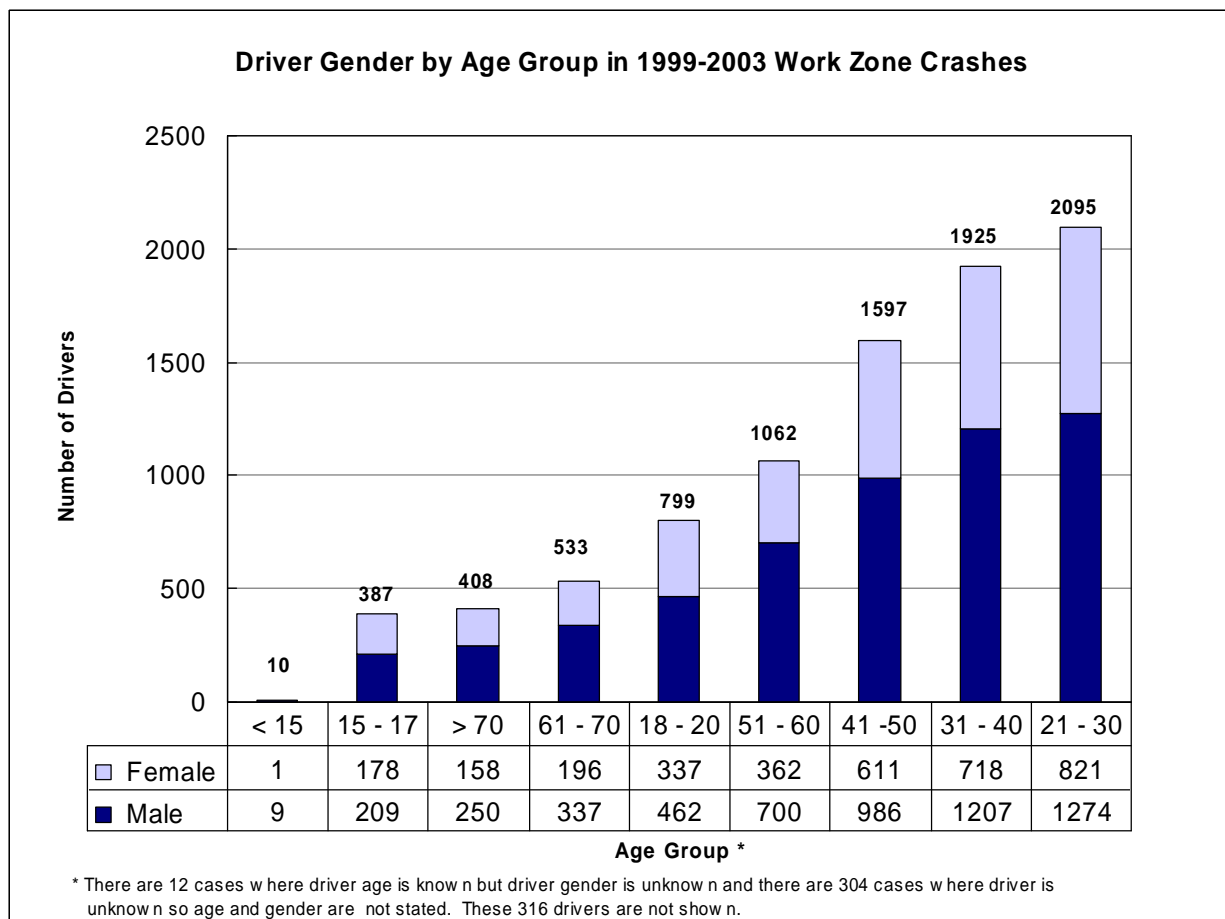
The chart on the previous page contains the summary of 9,130 vehicles involved in work zone crashes that occurred between January 1, 1999 and December 31, 2003. The data is presented as 5-year statewide totals for each Vehicle Type. These are further classified by the year in which the crash occurred.

Note: Due to the large variation in numbers represented by this bar graph a logarithmic scale was used to display the number of crashes. The length of the bar for each surface condition needs to be read using the logarithmic scale shown on the x-axis of the graph.



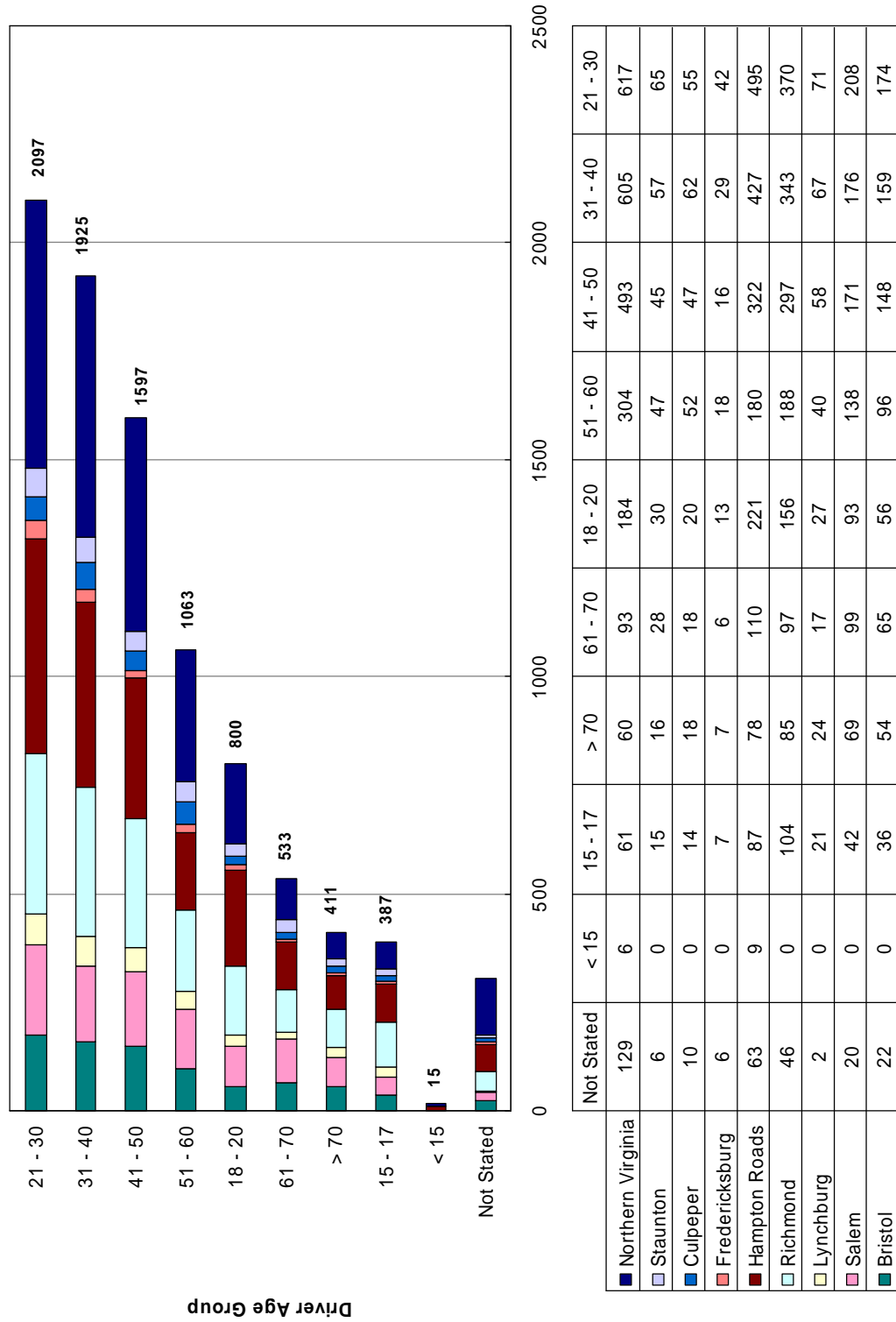
The chart on the previous page contains a summary of the 9,130 vehicles involved in work zone crashes (not the number of crashes) occurring between January 1, 1999 and December 31, 2003. The data is presented as 5-year statewide totals for each Vehicle Type. These are further classified by the total number of vehicles involved in the crash (single vehicle, two vehicles, three vehicles, or 4 or more vehicles).

Note: Due to the large variation in numbers represented by this bar graph a logarithmic scale was used to display the number of crashes. The length of the bar for each surface condition needs to be read using the logarithmic scale shown on the x-axis of the graph.

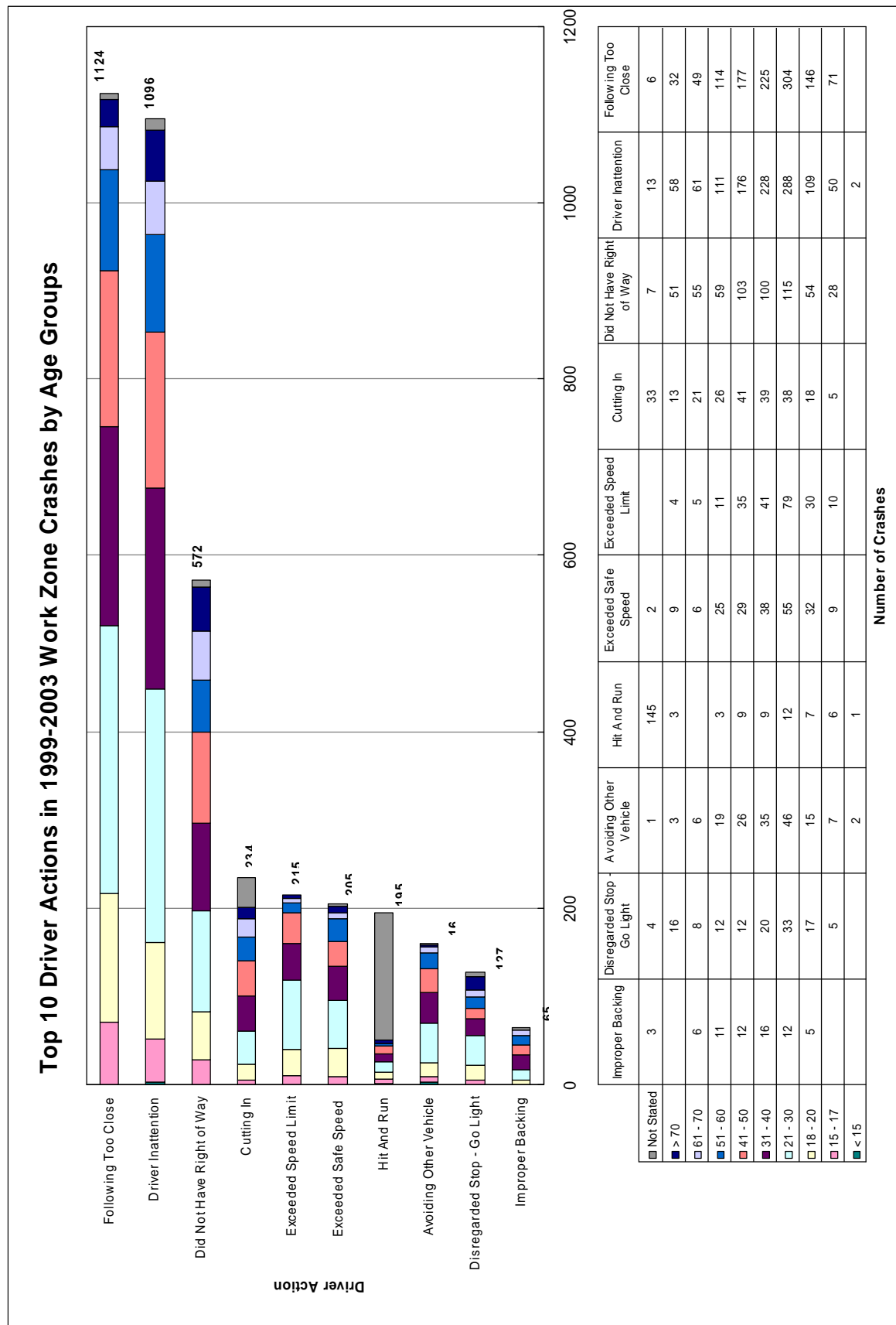


This chart contains a summary of the 9,130 drivers involved in work zone crashes (not the number of crashes) occurring between January 1, 1999 and December 31, 2003. The crashes are grouped by the Driver Gender and 10 Driver Age Groups. The data is presented as 5-year statewide totals for each age group. These are further classified by driver gender.

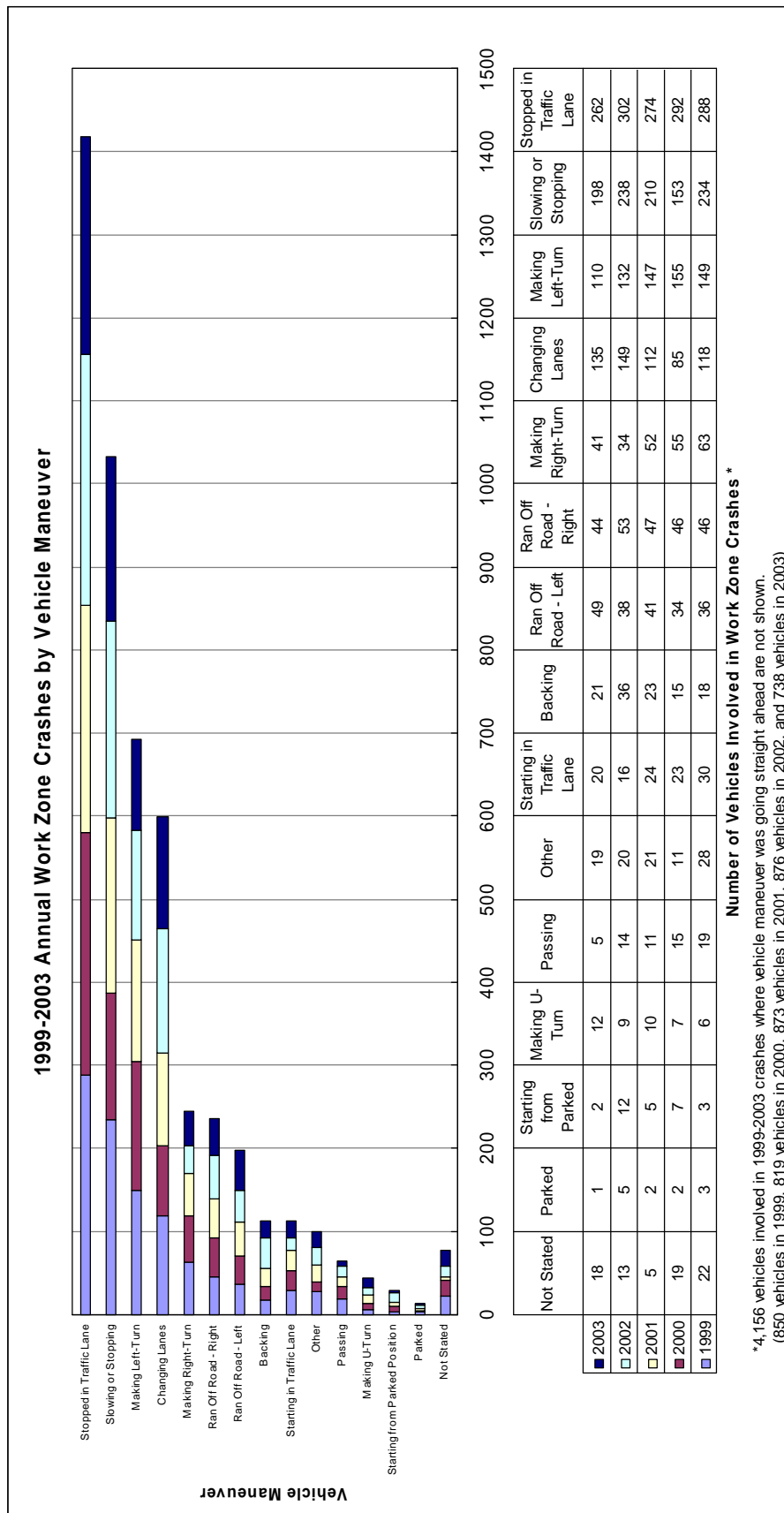
1999-2003 Work Zone Crashes by Driver Age in VDOT Districts



The chart on the previous page contains a summary of the 9,130 drivers involved in work zone crashes (not the number of crashes) occurring between January 1, 1999 and December 31, 2003. The crashes are grouped by the 10 Driver Age Groups. The data is presented as 5-year statewide totals for each age group. These are further classified by the VDOT district in which the crash occurred.

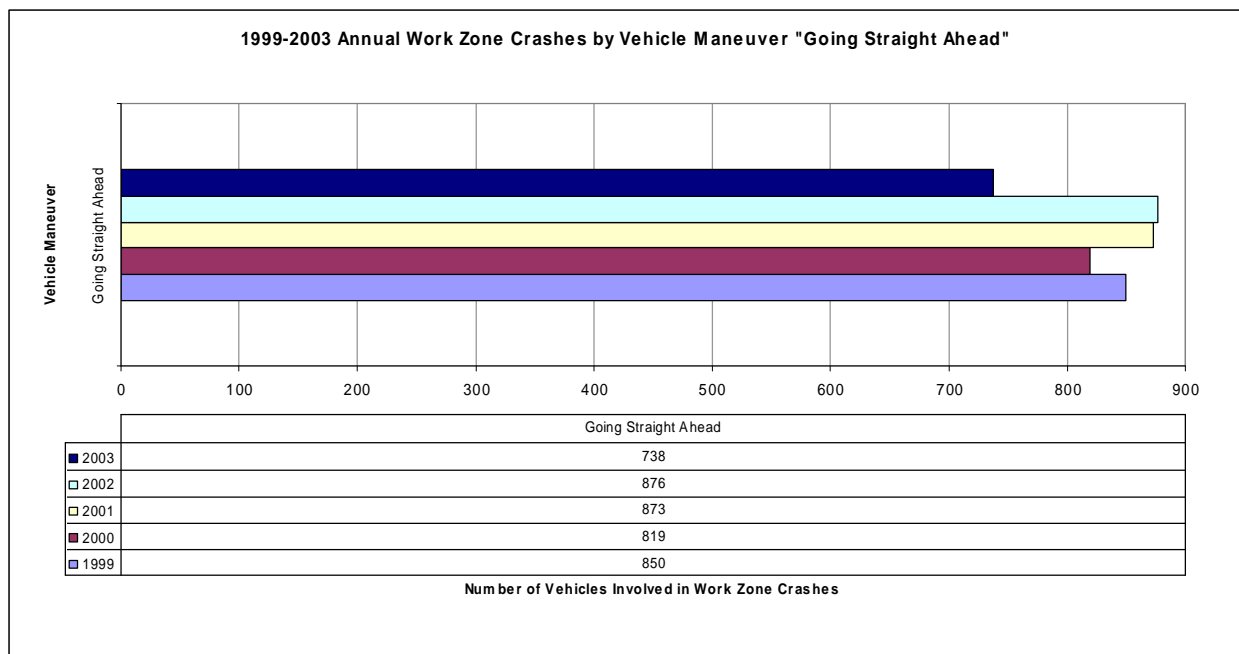


The chart on the previous page contains a summary of the 9,130 vehicles involved in work zone crashes (not the number of crashes) occurring between January 1, 1999 and December 31, 2003. The crashes are grouped by the top 10 Driver Actions (a total of 38 Driver Actions are identified in HTRIS). The data is presented as 5-year statewide totals for the top 10 Driver Actions. These are further classified by the 10 Driver Age Groups.

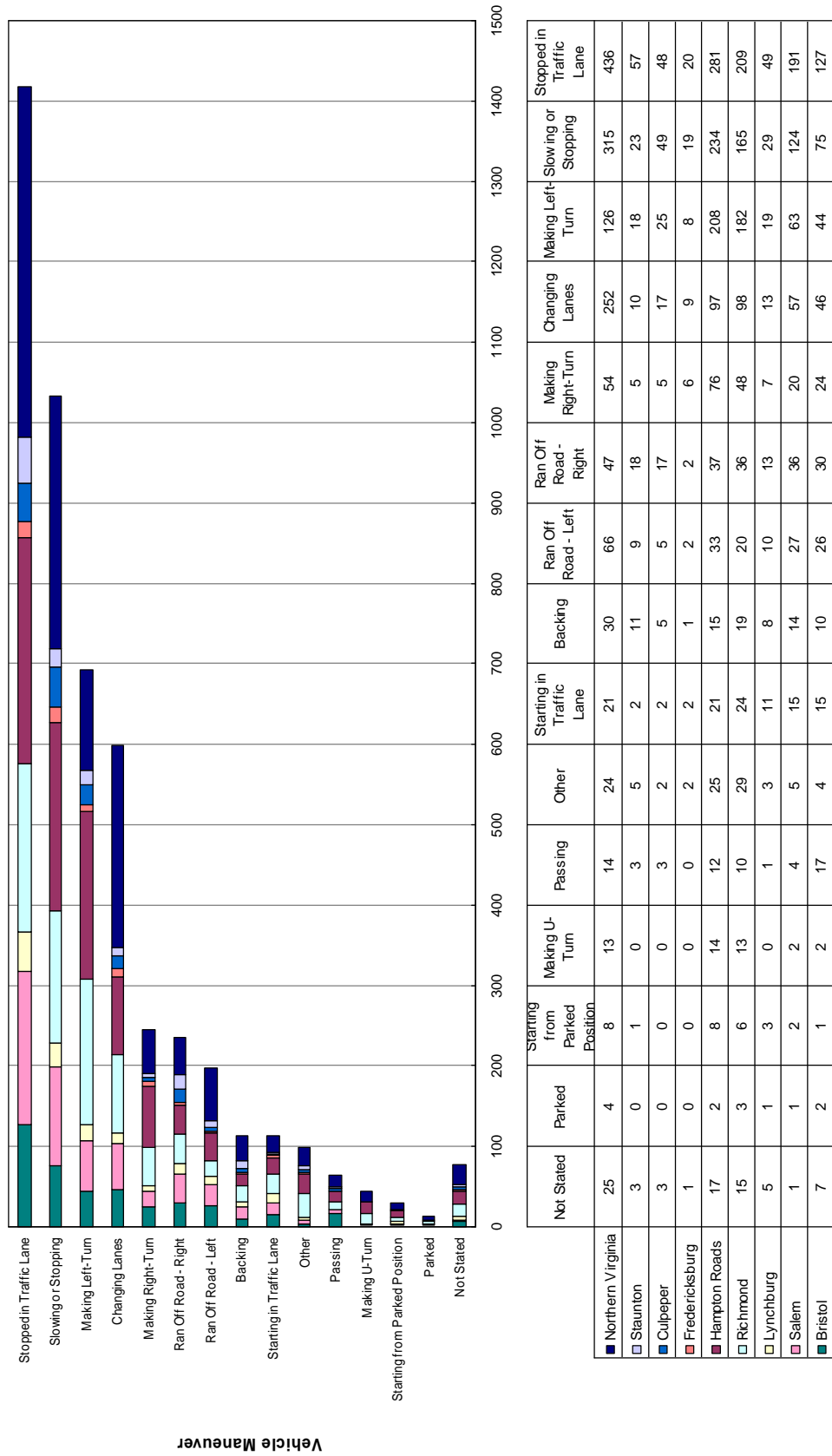


The chart on the previous page contains a summary of the 9,130 vehicles involved in work zone crashes (not the number of crashes) occurring between January 1, 1999 and December 31, 2003. The crashes are grouped by the 15 Vehicle Maneuvers identified in HTRIS. The data is presented as 5-year statewide totals for the top 10 Driver Actions. These are further classified by the year in which the crash occurred.

In 4,156 (or 85%) of the work zone crashes the vehicle maneuver was "Going Straight Ahead". Since this vehicle maneuver represents a majority of the crashes it is shown separately in the chart below rather than being included in the chart on the previous page. Of these 4,156 crashes 850 occurred in 1999, 819 occurred in 2000, 873 occurred in 2001, 876 occurred in 2002, and 738 occurred in 2003.



Vehicle Maneuvers in 1999-2003 Work Zone Crashes by VDOT Districts

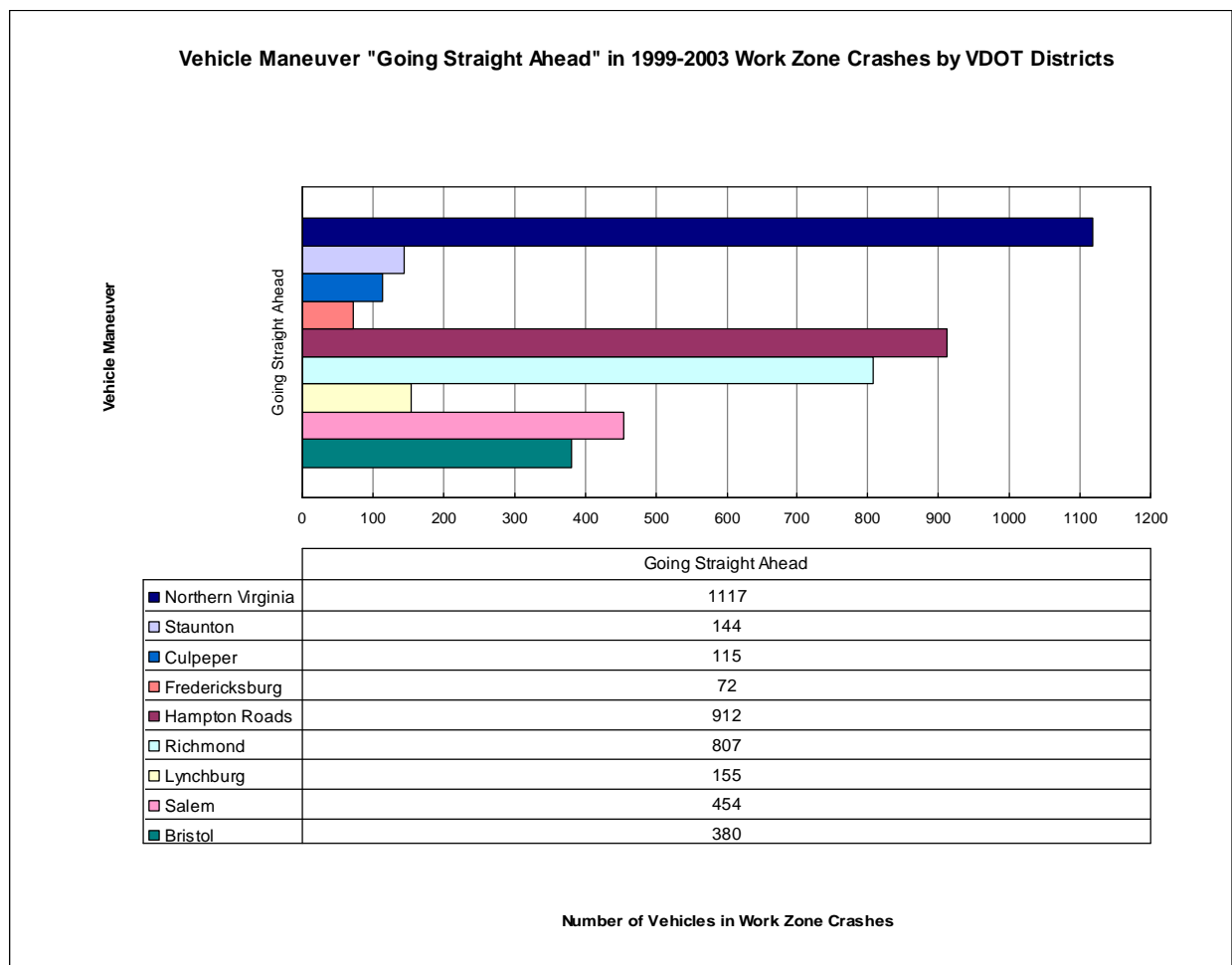


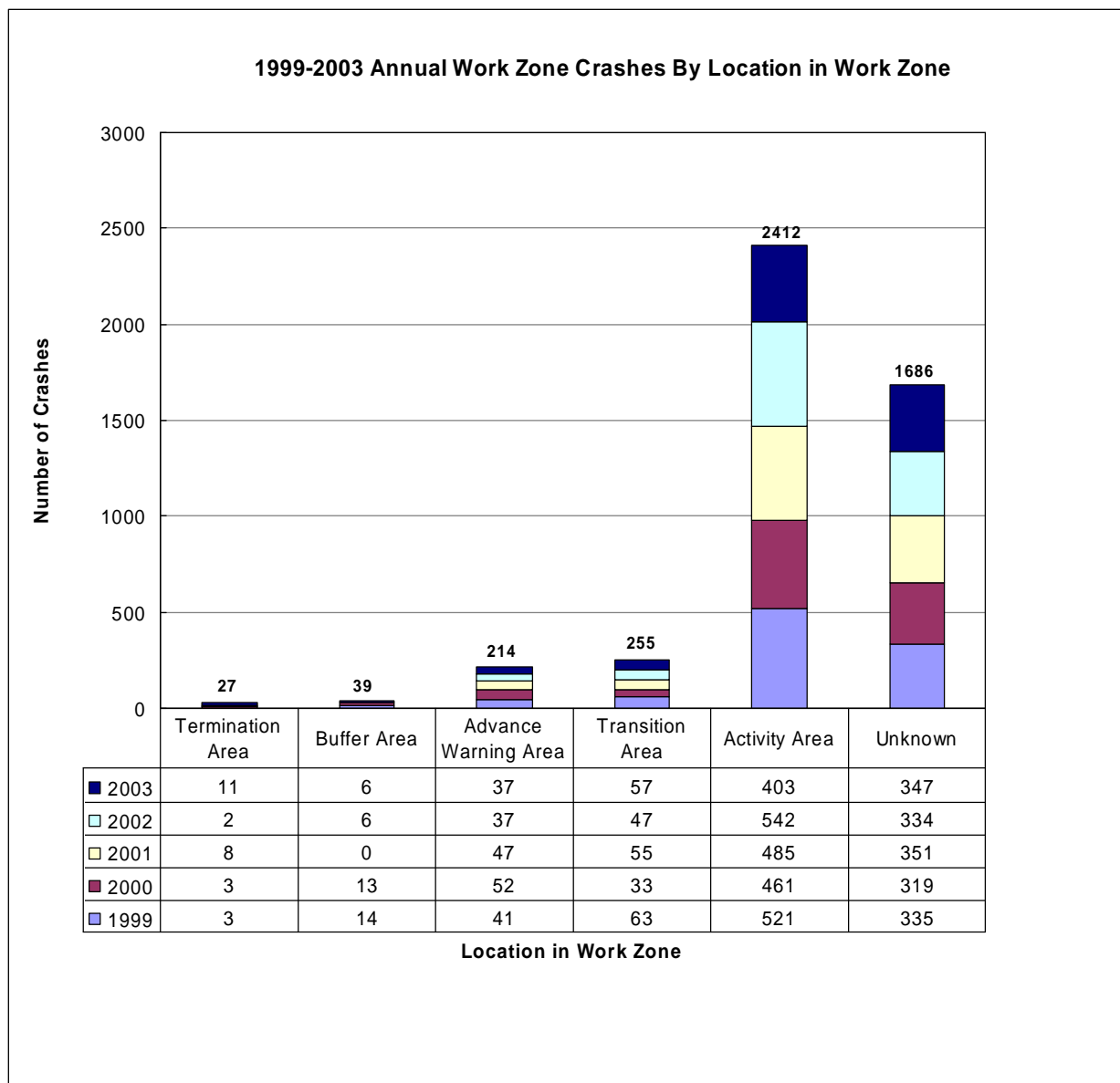
Number of Vehicles in Work Zone Crashes *

* 4,156 vehicles involved in 1999-2003 crashes where vehicle maneuver was going straight ahead are not shown.

The chart on the previous page contains a summary of the 9,130 vehicles involved in work zone crashes (not the number of crashes) occurring between January 1, 1999 and December 31, 2003. The crashes are grouped by the 15 Vehicle Maneuvers identified in HTRIS. The data is presented as 5-year statewide totals for each Vehicle Maneuver. These are further classified by the VDOT District in which the crash occurred.

In 4,156 (or 85%) of the work zone crashes the vehicle maneuver was "Going Straight Ahead". Since this vehicle maneuver represents a majority of the crashes it is shown separately in the chart below rather than being included in the chart on the previous page. Of these 4,156 crashes 380 occurred in the Bristol District, 454 occurred in the Salem District, 155 occurred in the Lynchburg District, 807 occurred on the Richmond District, 912 occurred in the Hampton Roads District, 72 occurred in the Fredericksburg District, 115 occurred in the Culpeper District, 144 occurred in the Staunton District, and 1,117 occurred in the Northern Virginia District.

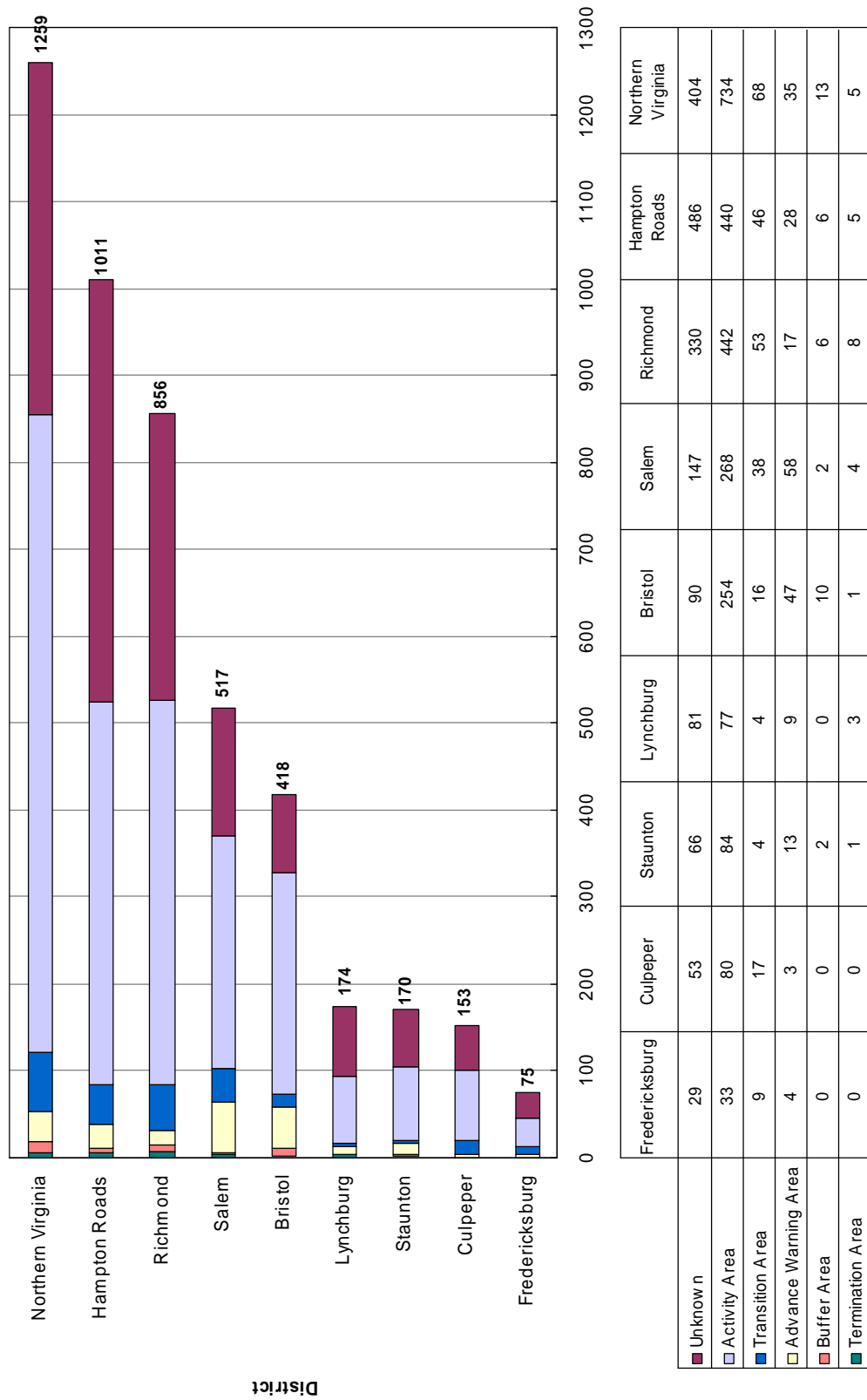




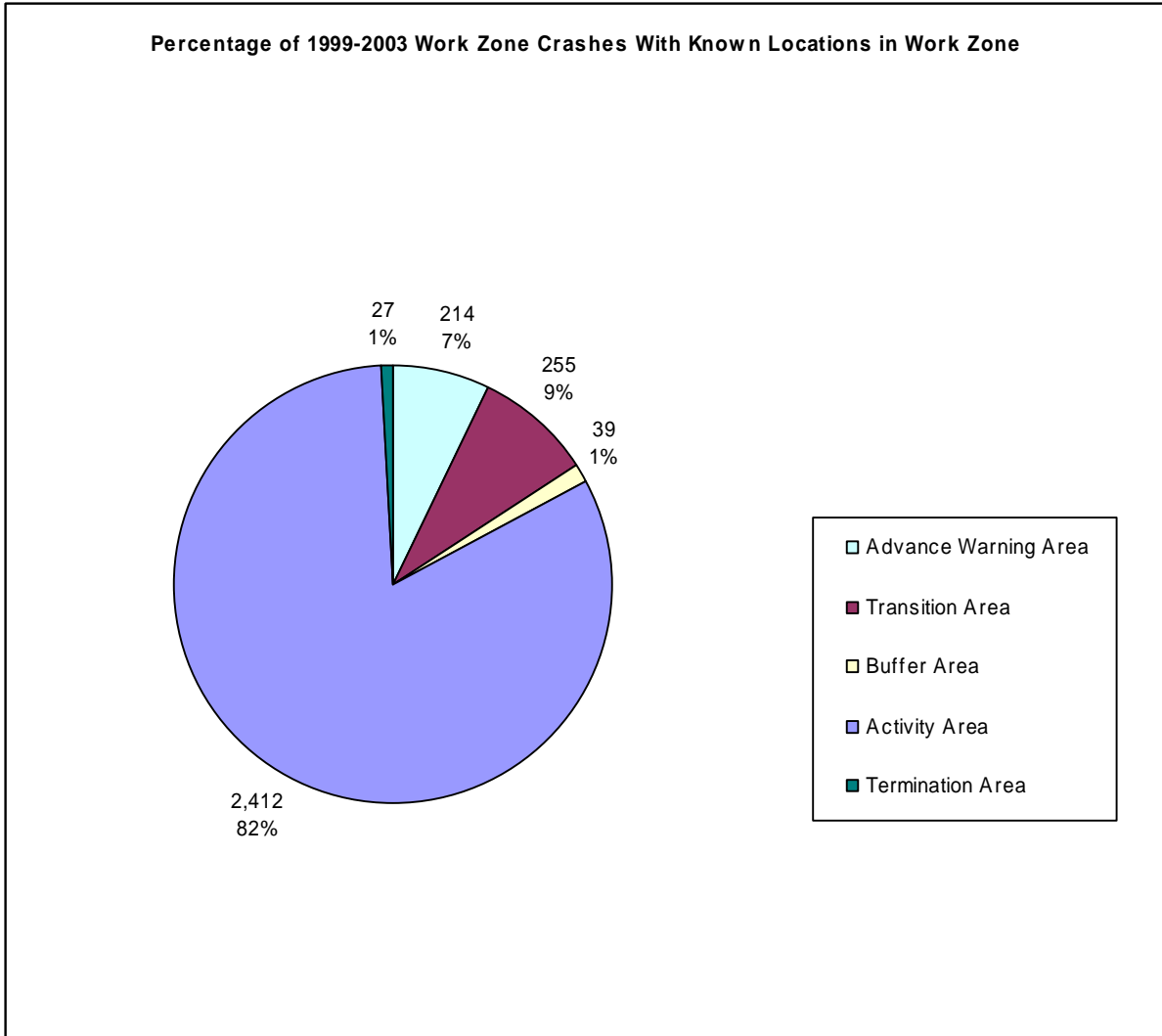
This chart contains a summary of the 4,633 work zone crashes occurring between January 1, 1999 and December 31, 2003 based on the FR-300s provided by VDOT. The crashes are grouped by the Area in Work Zone in which the crash occurred. The data is presented as 5-year statewide totals for each Area in Work Zone.

Note: When querying HTRIS, there are 4,618 crashes coded as roadway defect "4" (under repair). There are 4,633 FR-300s on file at VDOT for work zone crashes. There are 15 additional work zone crashes based on the FR-300s (the document numbers do not correspond to document numbers in HTRIS, possibly because they are supplemental reports). These 15 additional crashes were included in the Area in Work Zone graphs and tables.

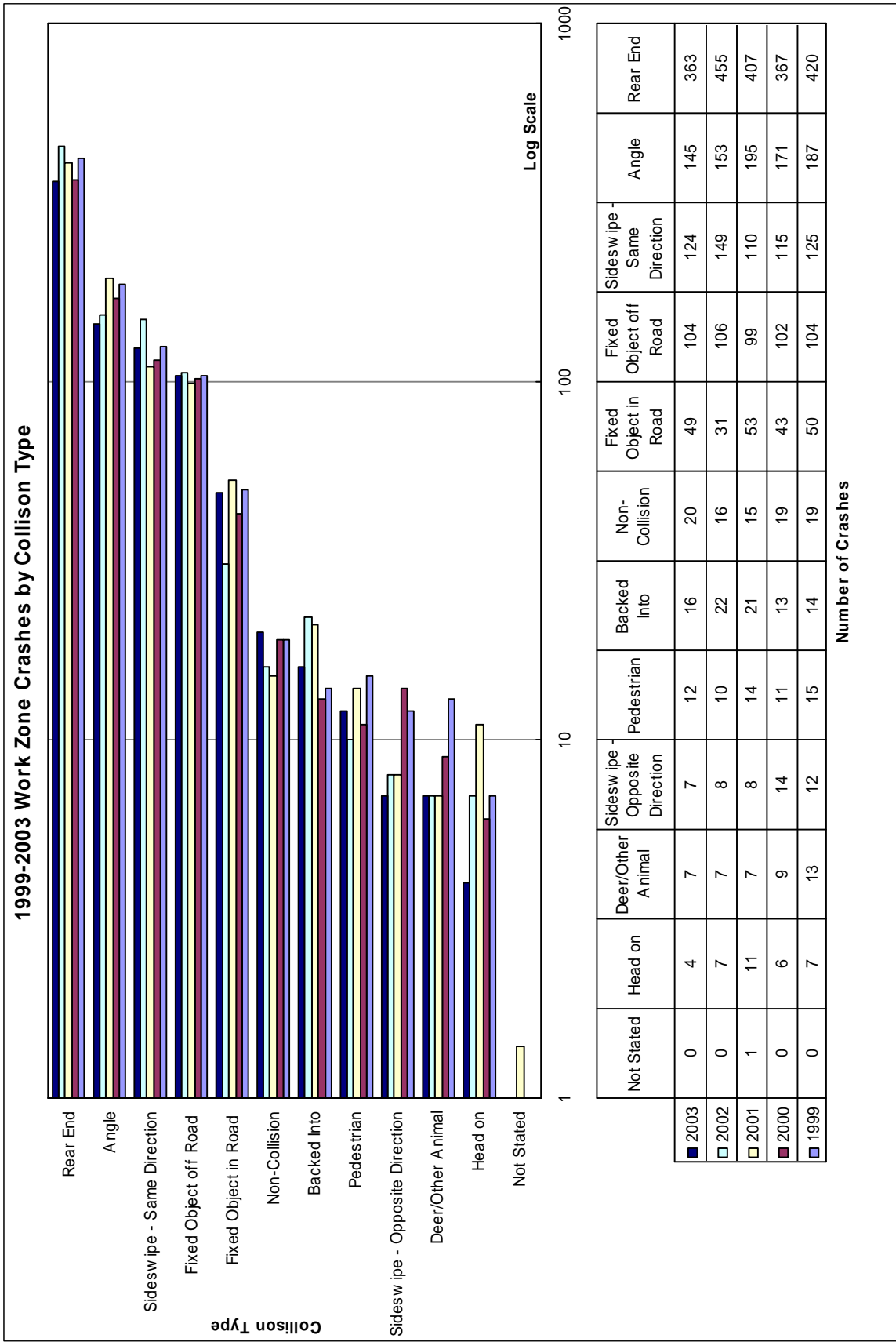
1993-2003 Work Zone Crash by Location in VDOT Districts



The chart on the previous page contains a summary of the 4,633 work zone crashes occurring between January 1, 1999 and December 31, 2003 based on the FR-300s provided by VDOT. The crashes are grouped by the Area in Work Zone in which the crash occurred. The data is presented as 5-year statewide totals for each Area in Work Zone. These are further classified by the VDOT District in which the crash occurred.



This chart contains a summary of the 2,947 work zone crashes occurring between January 1, 1999 and December 31, 2003 that occurred within a known location in the work zone. The 1,686 crashes that occurred within a work zone but that could not be located to one of the five areas (Advance Warning Area, Transition Area, Buffer Area, Activity Area, and Termination Area). The number of located crashes and the applicable percentage are shown in the chart.



The chart on the previous page contains a summary of the 4,633 work zone crashes occurring between January 1, 1999 and December 31, 2003 based on the FR-300s provided by VDOT. The crashes are grouped by Collision Type. The data is presented as 5-year statewide totals for each Collision Type.

Note: Due to the large variation in numbers represented by this bar graph a logarithmic scale was used to display the number of crashes. The length of the bar for each surface condition needs to be read using the logarithmic scale shown on the x-axis of the graph.

APPENDIX

Data Tables

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Table 1: 1999-2003 Work Zone Crashes By Roadway System In VDOT Districts

SYSTEM	Crash Year	Bristol	Salem	Lynchburg	Richmond	Hampton Roads	Fredericksburg	Culpeper	Staunton	Northern Virginia	Statewide Totals
Unclassified	1999		1							8	9
Unclassified	2000						1		2	5	8
Unclassified	2001	1			6			1	1	8	17
Unclassified	2002		3						1	6	10
Unclassified	2003			1	1				1	4	7
Total Unclassified Crashes		1	4	1	7	0	1	1	5	31	51
Interstate Route	1999	33	11		49	97	1	3	6	14	214
Interstate Route	2000	38	6		17	18	1	3	11	55	149
Interstate Route	2001	15	22		24	17	2	2	12	93	187
Interstate Route	2002	16	19		19	11	4	2	2	160	233
Interstate Route	2003	10	22		20	3	5	5	9	127	201
Crashes On Interstate Routes		112	80	0	129	146	13	15	40	449	984
State Primary Route	1999	72	47	11	111	116	8	13	17	66	461
State Primary Route	2000	68	91	32	60	115	3	22	13	64	468
State Primary Route	2001	46	62	21	55	97	6	23	28	83	421
State Primary Route	2002	39	85	33	74	126	10	28	10	91	496
State Primary Route	2003	18	65	32	57	126	12	17	16	65	408
Crashes On State Primary routes		243	350	129	357	580	39	103	84	369	2254
State Secondary Route	1999	10	8	8	36	9	1	10	3	61	146
State Secondary Route	2000	10	10	5	47	1	5	3	2	69	152
State Secondary Route	2001	10	10	8	49	4	2	5	5	91	184
State Secondary Route	2002	8	8	4	30	1		5	3	51	110
State Secondary Route	2003	9	13	2	35	1	10	5	7	43	125
Crashes On State Secondary Routes		47	49	27	197	16	18	28	20	315	717
City Street	1999	2	4	5	28	61	1		4	4	109
City Street	2000	4	8	1	22	38	1	1	3	3	81
City Street	2001	6	7	4	8	65	1	2	2	5	100
City Street	2002		4	4	10	33		2	8	8	69
City Street	2003		8	2	10	52	1	1	4	14	92
Crashes On City Street		12	31	16	78	249	4	6	21	34	451
County Road	1999				11					7	18
County Road	2000				12					5	17
County Road	2001				29					5	34
County Road	2002				23					8	31
County Road	2003				10					9	19
Crashes On County Street		0	0	0	85	0	0	0	0	34	119
Interstate Ramp	1999				1	13				2	16
Interstate Ramp	2000					2				2	4
Interstate Ramp	2001	1								1	2
Interstate Ramp	2002		2							9	11
Interstate Ramp	2003				1	1				7	9
Crashed on Interstate Ramp		1	2	0	2	16	0	0	0	21	42
5 Year Totals		416	516	173	855	1007	75	153	170	1253	4618

TABLE 2: Severity of 1999-2003 Work Zone Crashes By Roadway System

Roadway System (by Year)	Fatal Pedestrian	Fatal Vehicular	Injury to Pedestrian	Injury Vehicular	Property Damage Only	Statewide Totals
1999 Work Zone Crashes on Primary Routes	1	2	3	107	157	270
2000 Work Zone Crashes on Primary Routes	0	2	4	101	190	297
2001 Work Zone Crashes on Primary Routes	1	3	5	110	146	265
2002 Work Zone Crashes on Primary Routes	1	2	3	102	199	307
2003 Work Zone Crashes on Primary Routes	1	5	3	83	139	231
1999-2003 Work Zone Crashes on Primary Routes	4	14	18	503	831	1370
1999 Work Zone Crashes on Secondary Routes	1	0	3	59	82	145
2000 Work Zone Crashes on Secondary Routes	0	3	1	47	101	152
2001 Work Zone Crashes on Secondary Routes	0	0	3	65	116	184
2002 Work Zone Crashes on Secondary Routes	0	0	2	37	71	110
2003 Work Zone Crashes on Secondary Routes	0	1	6	36	83	126
1999-2003 Work Zone Crashes on Secondary Routes	1	4	15	244	453	717
1999 Work Zone Crashes on Interstate Routes	0	2	1	70	155	228
2000 Work Zone Crashes on Interstate Routes	0	2	0	63	88	153
2001 Work Zone Crashes on Interstate Routes	1	5	0	71	112	189
2002 Work Zone Crashes on Interstate Routes	0	3	1	98	142	244
2003 Work Zone Crashes on Interstate Routes	0	4	1	73	130	208
1999-2003 Work Zone Crashes on Interstate Routes	1	16	3	375	628	1022
1999 Work Zone Crashes on Non-VDOT System Routes	0	2	6	112	209	329
2000 Work Zone Crashes on Non-VDOT System Routes	0	0	6	89	182	277
2001 Work Zone Crashes on Non-VDOT System Routes	0	2	4	124	174	304
2002 Work Zone Crashes on Non-VDOT System Routes	0	1	3	96	197	297
2003 Work Zone Crashes on Non-VDOT System Routes	0	1	1	93	200	295
1999-2003 Work Zone Crashes on Non-VDOT System Routes	0	6	20	514	962	1502
Unclassified Crashes						7
5 Year Totals	6	40	56	1636	2874	4618

TABLE 3: 1999-2003 Quarterly Work Zone Crashes In VDOT Districts

Quarter	District	Mon	Tue	Wed	Thur	Fri	Sat	Sun	Totals
1	Bristol	14	11	9	9	8	7	4	62
1	Salem	14	6	11	14	11	5	7	68
1	Lynchburg	1	10	9	6	2	1	1	30
1	Richmond	22	32	25	43	33	14	9	178
1	Hampton Roads	32	28	27	36	45	31	11	210
1	Fredericksburg			1	2	3	4		10
1	Culpeper	2	1	4	1	2	2	2	14
1	Staunton	3	2	2	4	4	2		17
1	Northern Virginia	23	28	29	37	37	13	16	183
I quarter crashes		111	118	117	152	145	79	50	772
2	Bristol	28	21	21	21	17	12	4	124
2	Salem	23	28	27	32	32	12	19	173
2	Lynchburg	13	4	8	7	8		3	43
2	Richmond	27	37	39	50	31	19	11	214
2	Hampton Roads	34	27	34	54	46	30	19	244
2	Fredericksburg	2	3	3	5	2	1	1	17
2	Culpeper	8	10	8	12	6	4	3	51
2	Staunton	6	9	12	12	8	4	3	54
2	Northern Virginia	43	48	58	53	56	38	26	322
II quarter crashes		184	187	210	246	206	120	89	1242
3	Bristol	24	19	19	27	24	8	8	129
3	Salem	19	28	30	26	23	11	6	143
3	Lynchburg	9	9	9	13	7	5	5	57
3	Richmond	39	34	32	33	46	22	14	220
3	Hampton Roads	34	41	40	41	39	40	35	270
3	Fredericksburg	2	2	8	3	3	1		19
3	Culpeper	11	8	11	15	7	2	2	56
3	Staunton	10	10	7	14	14	7	5	67
3	Northern Virginia	50	67	65	59	52	48	37	378
III quarter crashes		198	218	221	231	215	144	112	1339
4	Bristol	14	17	17	23	17	7	6	101
4	Salem	18	24	31	20	25	9	5	132
4	Lynchburg	8	11	6	9	6	2	1	43
4	Richmond	49	40	39	31	57	17	10	243
4	Hampton Roads	32	50	48	37	54	28	34	283
4	Fredericksburg	4	7	7	4	4	3		29
4	Culpeper	4	8	5	6	2	2	5	32
4	Staunton	4	5	7	4	8	2	2	32
4	Northern Virginia	46	50	67	62	58	47	40	370
IV quarter crashes		179	212	227	196	231	117	103	1265
5 year totals		672	735	775	825	797	460	354	4618

TABLE 4: 1999-2003 Quarterly Work Zone Crashes By Day of Week

Quarter	Crash Year	Mon	Tue	Wed	Thur	Fri	Sat	Sun	Total
1	1999	27	34	23	43	36	25	9	197
1	2000	14	24	26	20	20	10	11	125
1	2001	25	16	22	29	28	13	9	142
1	2002	24	25	29	32	31	12	13	166
1	2003	21	19	17	28	30	19	8	142
I quarter crashes		111	118	117	152	145	79	50	772
(As % of Total)		14%	15%	15%	20%	19%	10%	6%	100%
2	1999	33	47	43	50	40	26	22	261
2	2000	27	33	37	40	47	29	14	227
2	2001	35	33	48	54	36	18	18	242
2	2002	41	29	34	52	43	15	16	230
2	2003	48	45	48	50	40	32	19	282
II quarter crashes		184	187	210	246	206	120	89	1242
(As % of Total)		15%	15%	17%	20%	17%	10%	7%	100%
3	1999	31	39	44	46	39	24	22	245
3	2000	45	28	46	51	53	35	24	282
3	2001	47	59	47	43	46	21	20	283
3	2002	43	48	48	55	42	38	24	298
3	2003	32	44	36	36	35	26	22	231
III quarter crashes		198	218	221	231	215	144	112	1339
(As % of Total)		15%	16%	17%	17%	16%	11%	8%	100%
4	1999	42	42	42	47	46	18	33	270
4	2000	37	40	42	29	53	27	17	245
4	2001	43	55	48	47	47	23	15	278
4	2002	31	41	50	41	55	32	16	266
4	2003	26	34	45	32	30	17	22	206
IV quarter crashes		179	212	227	196	231	117	103	1265
(As % of Total)		14%	17%	18%	15%	18%	9%	8%	100%
5 year totals		672	735	775	825	797	460	354	4618
(As % of Total)		15%	16%	17%	18%	17%	10%	8%	100%

TABLE 5: 1999-2003 Daily Work Zone Crashes By Day of the Week

Code	DAY OF WEEK	Crash Year	12 AM to 6AM	4PM to 7PM	6AM to 9AM	7PM to 12AM	9AM to 4PM	Statewide Totals
1	Monday	1999	5	25	19	15	69	133
1	Monday	2000	6	25	9	22	61	123
1	Monday	2001	11	28	12	23	76	150
1	Monday	2002	3	25	19	13	79	139
1	Monday	2003	9	13	4	24	77	127
Crashes on Monday			34	116	63	97	362	672
2	Tuesday	1999	5	27	19	33	78	162
2	Tuesday	2000	4	27	18	18	58	125
2	Tuesday	2001	7	21	29	25	81	163
2	Tuesday	2002	6	32	10	25	70	143
2	Tuesday	2003	9	25	12	21	75	142
Crashes on Tuesday			31	132	88	122	362	735
3	Wednesday	1999	4	22	21	24	81	152
3	Wednesday	2000	9	21	19	19	83	151
3	Wednesday	2001	5	28	15	34	83	165
3	Wednesday	2002	6	28	15	33	79	161
3	Wednesday	2003	7	23	16	25	75	146
Crashes on Wednesday			31	122	86	135	401	775
4	Thursday	1999	13	31	16	38	88	186
4	Thursday	2000	12	22	23	10	73	140
4	Thursday	2001	13	26	25	28	81	173
4	Thursday	2002	10	26	21	30	93	180
4	Thursday	2003	14	23	16	34	59	146
Crashes on Thursday			62	128	101	140	394	825
5	Friday	1999	12	32	17	21	79	161
5	Friday	2000	16	31	25	27	74	173
5	Friday	2001	9	23	17	23	85	157
5	Friday	2002	10	33	20	24	84	171
5	Friday	2003	11	30	18	20	56	135
Crashes on Friday			58	149	97	115	378	797
6	Saturday	1999	13	12	5	24	39	93
6	Saturday	2000	15	14	12	15	45	101
6	Saturday	2001	12	16	7	13	27	75
6	Saturday	2002	13	20	1	19	44	97
6	Saturday	2003	16	10	9	26	33	94
Crashes on Saturdays			69	72	34	97	188	460
7	Sunday	1999	15	9	6	18	38	86
7	Sunday	2000	12	13	4	17	20	66
7	Sunday	2001	10	12	3	14	23	62
7	Sunday	2002	15	12	2	17	23	69
7	Sunday	2003	14	10	4	16	27	71
Crashes on Sundays			66	56	19	82	131	354
5 yr Totals			351	775	488	788	2216	4618

TABLE 6: 1999-2003 Daily Work Zone Crashes By District

Code	Day Of Week	District	12 AM to 6AM	4PM to 7PM	6AM to 9AM	7PM to 12AM	9AM to 4PM	Statewide Totals
1	Monday	Bristol	1	19	5	8	47	80
1	Monday	Salem	1	11	5	8	49	74
1	Monday	Lynchburg	3	6	1	6	15	31
1	Monday	Richmond	7	33	16	21	60	137
1	Monday	Hampton Roads	9	21	9	24	69	132
1	Monday	Fredericksburg				2	6	8
1	Monday	Culpeper		2	4	4	15	25
1	Monday	Staunton		2	5	3	13	23
1	Monday	Northern Virginia	13	22	18	21	88	162
Crashes On Monday			34	116	63	97	362	672
2	Tuesday	Bristol	2	14	10	8	34	68
2	Tuesday	Salem	1	16	10	8	51	86
2	Tuesday	Lynchburg	1	12	5	1	15	34
2	Tuesday	Richmond	3	22	15	27	76	143
2	Tuesday	Hampton Roads	6	26	19	30	65	146
2	Tuesday	Fredericksburg		2	4	1	5	12
2	Tuesday	Culpeper		5	2	2	18	27
2	Tuesday	Staunton	3	8	2	3	10	26
2	Tuesday	Northern Virginia	15	27	21	42	88	193
Crashes On Tuesday			31	132	88	122	362	735
3	Wednesday	Bristol	2	13	10	1	40	66
3	Wednesday	Salem	2	15	13	13	56	99
3	Wednesday	Lynchburg		9	4	2	17	32
3	Wednesday	Richmond	6	24	10	24	71	135
3	Wednesday	Hampton Roads	6	21	19	25	78	149
3	Wednesday	Fredericksburg	2	3	2	4	8	19
3	Wednesday	Culpeper		6	3	2	17	28
3	Wednesday	Staunton	1	5	2	6	14	28
3	Wednesday	Northern Virginia	12	26	23	58	100	219
Crashes On Wednesday			31	122	86	135	401	775
4	Thursday	Bristol	5	16	4	8	47	80
4	Thursday	Salem	7	20	11	7	47	92
4	Thursday	Lynchburg	4	4	5	4	18	35
4	Thursday	Richmond	4	21	23	37	72	157
4	Thursday	Hampton Roads	15	33	24	32	64	168
4	Thursday	Fredericksburg	3	3	2	4	2	14
4	Thursday	Culpeper	1	9	5	4	15	34
4	Thursday	Staunton	3	5	5	4	17	34
4	Thursday	Northern Virginia	20	17	22	40	112	211
Crashes On Thursday			62	128	101	140	394	825
5	Friday	Bristol	5	10	4	6	41	66
5	Friday	Salem	6	19	11	13	42	91
5	Friday	Lynchburg	2	4	8	1	8	23
5	Friday	Richmond	8	34	20	32	73	167
5	Friday	Hampton Roads	17	32	21	26	88	184
5	Friday	Fredericksburg	2	3	1	1	5	12
5	Friday	Culpeper		1	6	1	9	17
5	Friday	Staunton	1	7	2	5	19	34
5	Friday	Northern Virginia	17	39	24	30	93	203
Crashes On Friday			58	149	97	115	378	797
6	Saturday	Bristol	4	4	2	9	15	34
6	Saturday	Salem	3	5	4	9	16	37
6	Saturday	Lynchburg	1	1		2	4	8
6	Saturday	Richmond	13	9	6	13	31	72
6	Saturday	Hampton Roads	22	23	9	30	45	129
6	Saturday	Fredericksburg	1	2	1	1	4	9
6	Saturday	Culpeper			1	3	6	10
6	Saturday	Staunton	3		2	2	8	15
6	Saturday	Northern Virginia	22	28	9	28	59	146
Crashes On Saturday			69	72	34	97	188	460
7	Sunday	Bristol	2	3	1	5	11	22
7	Sunday	Salem	7	5	2	10	13	37
7	Sunday	Lynchburg	4	1		1	4	10
7	Sunday	Richmond	6	8	3	9	18	44
7	Sunday	Hampton Roads	21	12	4	23	39	99
7	Sunday	Fredericksburg	1					1
7	Sunday	Culpeper	3	3		2	4	12
7	Sunday	Staunton	4	1	1	1	3	10
7	Sunday	Northern Virginia	18	23	8	31	39	119
Crashes On Sunday			66	56	19	82	131	354
5 yr Totals			351	775	488	788	2216	4618

TABLE 7: Surface Condition of 1999-2003 Work Zone Crashes By Weather

Code	Surface Condition	Crash Year	Not Stated	Clear	Cloudy	Fog	Mist	Raining	Snowing	Sleeting	Smoke Dust	Other	Total
1	Dry	1999		701	126		1						828
1	Dry	2000		600	142	4	1						747
1	Dry	2001		669	133	5	1						808
1	Dry	2002		667	155		3					1	826
1	Dry	2003		519	153	8	2						682
Dry road crashes			0	3156	709	17	8	0	0	0	0	1	3891
2	Wet	1999	2	5	28	2	16	67					120
2	Wet	2000	1	9	19	2	20	58					109
2	Wet	2001		6	28	3	18	58				1	114
2	Wet	2002		9	19	2	11	59					100
2	Wet	2003	4	9	24	1	25	77					140
Wet road crashes			7	38	118	10	90	319	0	0	0	1	583
3	Snowy	1999							3				3
3	Snowy	2000		1					4				5
3	Snowy	2001							4				4
3	Snowy	2002		2					8				10
3	Snowy	2003			2				5				7
Snowy Road Crashes			0	3	2	0	0	0	24	0	0	0	29
4	Icy	1999		2			1			1			4
4	Icy	2000		2						3			5
4	Icy	2001			1								1
4	Icy	2002		2	1	1				1			5
4	Icy	2003		2		1				2			5
Icy road Crashes			0	8	2	2	1	0	0	7	0	0	20
5	Muddy	1999		5									5
5	Muddy	2001		3			1						4
5	Muddy	2002	1	1									2
5	Muddy	2003		1	2								3
Muddy Road Crashes			1	10	2	0	1	0	0	0	0	0	14
6	Oily	2000		1									1
6	Oily	2002		1									1
6	Oily	2003	1	1									2
Oily Road Crashes			1	3	0	0	0	0	0	0	0	0	4
7	Other	1999		8	2		1						11
7	Other	2000		9	1								10
7	Other	2001		11	2	1							14
7	Other	2002		14	1								15
7	Other	2003		14	4		1				1		20
Other Crashes			0	56	10	1	2	0	0	0	1	0	70
8	Not Stated	1999	1		1								2
8	Not Stated	2000	2										2
8	Not Stated	2002	1										1
8	Not Stated	2003	2										2
Not Stated			6	0	1	0	0	0	0	0	0	0	7
5yr totals			15	3274	844	30	102	319	24	7	1	2	4618

TABLE 8: Weather Conditions In 1999-2003 Work Zone Crashes By Surface Condition By District

Surface Condition Code	District	Clear	Cloudy	Fog	Mist	Raining	Snowing	Sleeting	Smoke Dust	Other	Total
1	Bristol	250	101	1							352
1	Salem	332	100	4	1						437
1	Lynchburg	128	19								147
1	Richmond	624	101		1						726
1	Hampton	718	103	7							828
1	Fredricksburg	59	6								65
1	Culpepper	107	23		1						131
1	Staunton	108	39	3							150
1	Northern	830	217	2	5					1	1055
Dry road crashes		3156	709	17	8	0	0	0	0	1	3891
2	Bristol	4	14	1	8	30					57
2	Salem	2	16	4	8	33					63
2	Lynchburg		5		4	9					19
2	Richmond	7	19	1	18	52					99
2	Hampton	11	22	2	18	90				1	145
2	Fredricksburg		2	1	1	3					7
2	Culpepper		4		6	7					18
2	Staunton		3		2	9					14
2	Northern	14	33	1	25	86					161
Wet road crashes		38	118	10	90	319	0	0	0	1	583
3	Bristol						5				5
3	Salem		1				3				4
3	Lynchburg						1				1
3	Richmond						2				2
3	Hampton						1				1
3	Fredricksburg						1				1
3	Culpepper						1				1
3	Staunton	1					1				2
3	Northern	2	1				9				12
Snowy Road Crashes		3	2	0	0	0	24	0	0	0	29
4	Salem		2		1			2			5
4	Lynchburg	1									1
4	Richmond	2		2				1			5
4	Hampton	1						2			3
4	Northern	4						2			6
Icy road Crashes		8	2	2	1	0	0	7	0	0	20
5	Lynchburg	1									2
5	Richmond	5			1						6
5	Hampton	1	2								3
5	Fredricksburg	1									1
5	Staunton	1									1
5	Northern	1									1
Muddy Road Crashes		10	2	0	1	0	0	0	0	0	14
6	Richmond	2									3
6	Culpepper	1									1
Oliy Road Crashes		3	0	0	0	0	0	0	0	0	4
7	Bristol	2									2
7	Salem	4	2		1						7
7	Lynchburg	2	1								3
7	Richmond	12	1		1						14
7	Hampton	19	3	1					1		24
7	Fredricksburg	1									1
7	Culpepper	1									1
7	Staunton	2									2
7	Northern	13	3								16
Other Crashes		56	10	1	2	0	0	0	1	0	70
8	Hampton		1								3
8	Culpepper										1
8	Staunton										1
8	Northern										2
Not Stated		0	1	0	0	0	0	0	0	0	7
5 yr totals		3274	844	30	102	319	24	7	1	2	4618

**TABLE 9: Types of Vehicles Involved In 1999-2003 Work Zone Crashes
By Number of Vehicles Involved In Crash**

Vehicle Type	Crash Year	No of vehicles involved in crash							Total Crashes
		1	2	3	4	5	6	7	
Passenger Vehicle	1999	826	666	104	18	2	1	1	1618
Passenger Vehicle	2000	744	602	98	23	10	2	2	1481
Passenger Vehicle	2001	807	650	92	23	3	1		1576
Passenger Vehicle	2002	831	678	115	27	7	1		1659
Passenger Vehicle	2003	720	559	86	20	5	3	1	1394
Passenger Vehicle Crashes		3928	3155	495	111	27	8	4	7728
Motorcycle	1999	8	1						9
Motorcycle	2000	6	1						7
Motorcycle	2001	12	4						16
Motorcycle	2002	10	3						13
Motorcycle	2003	11	3						14
Motorcycle Crashes		47	12	0	0	0	0	0	59
Not stated	1999	19	38	7	4				68
Not stated	2000	30	34	11	1	1			77
Not stated	2001	34	28	13	2				77
Not stated	2002	32	36	9	2	2			81
Not stated	2003	36	37	9					82
Not stated		151	173	49	9	3	0	0	385
Other	1999	4	4	1					9
Other	2000	1	4						5
Other	2001	5	4	2	1				12
Other	2002	4	5						9
Other	2003	1	3						4
Other Crashes		15	20	3	1	0	0	0	39
Truck	1999	110	85	12	2				209
Truck	2000	98	64	3	2	1			168
Truck	2001	87	83	3	3				176
Truck	2002	83	88	9	4	1			185
Truck	2003	92	74	11	3	1			181
Truck Crashes		470	394	38	14	3	0	0	919
5 yr total (Number of Vehicles)		4611	3754	585	135	33	8	4	9130

**TABLE 10: Severity Of 1999-2003 Work Zone Crashes
By Number of Vehicles Involved In Crash**

Vehicle Type	Severity	No of vehicles involved in crash							Total Crashes
		1	2	3	4	5	6	7	
Passenger Vehicle	0	4	1						5
Passenger Vehicle	1	27	19	5	6	2	2		61
Passenger Vehicle	2	39							39
Passenger Vehicle	3	1424	1149	249	55	14	4	3	2898
Passenger Vehicle	4	2434	1986	241	50	11	2	1	4725
Passenger Vehicle Crashes		3928	3155	495	111	27	8	4	7728
Motorcycle	1	3							3
Motorcycle	3	40	10						50
Motorcycle	4	4	2						6
Motorcycle Crashes		47	12	0	0	0	0	0	59
Not stated	0	1							1
Not stated	1	1	1	1					3
Not stated	2	10							10
Not stated	3	38	55	15	4	2			114
Not stated	4	101	117	33	5	1			257
Not stated		151	173	49	9	3	0	0	385
Other	3	9	16	2	1				28
Other	4	6	4	1					11
Other Crashes		15	20	3	1	0	0	0	39
Truck	0	1							1
Truck	1	9	4	3	1	2			19
Truck	2	7	1						8
Truck	3	125	112	21	9	1			268
Truck	4	328	277	14	4				623
Truck Crashes		470	394	38	14	3	0	0	919
5 year totals		4611	3754	585	135	33	8	4	9130

**TABLE 11: Types of Vehicles Involved In 1999-2003 Work Zone Crashes
By Number Of Vehicles Involved In Crash In VDOT Districts**

Veh Type	District	No of vehicles involved in crash							Total Crashes
		1	2	3	4	5	6	7	
Passenger Vehicle	Bristol	332	264	28	7	3	1	1	636
Passenger Vehicle	Salem	448	340	53	16	3	1	1	862
Passenger Vehicle	Lynchburg	144	114	19	2				279
Passenger Vehicle	Richmond	733	604	85	14	3	2		1441
Passenger Vehicle	Hampton Roads	885	729	113	22	6	1		1756
Passenger Vehicle	Fredericksburg	61	51	4	3				119
Passenger Vehicle	Culpeper	125	101	19	6	1			252
Passenger Vehicle	Staunton	133	100	13	2				248
Passenger Vehicle	Northern Virginia	1067	852	161	39	11	3	2	2135
Passenger Vehicle Crashes		3928	3155	495	111	27	8	4	7728
Motorcycle	Bristol	3							3
Motorcycle	Salem	1	2						3
Motorcycle	Lynchburg	3							3
Motorcycle	Richmond	3	2						5
Motorcycle	Hampton Roads	9	6						15
Motorcycle	Fredericksburg	1							1
Motorcycle	Culpeper	5							5
Motorcycle	Staunton	4							4
Motorcycle	Northern Virginia	18	2						20
Motorcycle Crashes		47	12	0	0	0	0	0	59
Not stated	Bristol	14	10	3					27
Not stated	Salem	8	11	5	1	1			26
Not stated	Lynchburg	8	2	1					11
Not stated	Richmond	39	41	10	3				93
Not stated	Hampton Roads	37	40	5	2				84
Not stated	Fredericksburg	2	3	1		1			7
Not stated	Culpeper	5	3	2	1				11
Not stated	Staunton	5	3	1					9
Not stated	Northern Virginia	33	60	21	2	1			117
Not stated		151	173	49	9	3	0	0	385
Other	Bristol		3	1					4
Other	Salem	2	3						5
Other	Lynchburg		1						1
Other	Richmond	2	2						4
Other	Hampton Roads	5	5	2					12
Other	Culpeper	2							2
Other	Northern Virginia	4	6		1				11
Other Crashes		15	20	3	1	0	0	0	39
Truck	Bristol	67	56	13	3	1			140
Truck	Salem	56	59	4	1				120
Truck	Lynchburg	18	14	1					33
Truck	Richmond	72	56	8	4	1			141
Truck	Hampton Roads	71	50	2	1	1			125
Truck	Fredericksburg	11	5	1					17
Truck	Culpeper	16	10						26
Truck	Staunton	28	20						48
Truck	Northern Virginia	131	124	9	5				269
Truck Crashes		470	394	38	14	3	0	0	919
5 yr total (Number of Vehicles)		4611	3754	585	135	33	8	4	9130

**TABLE 12: Types of Vehicle Maneuvers Involved
In 1999-2003 Annual Work Zone Crashes**

Code	Vehicle Maneuver Description	1999	2000	2001	2002	2003	5 Year Total
16	Not Stated	22	19	5	13	18	77
11	Parked	3	2	2	5	1	13
7	Starting from Parked Position	3	7	5	12	2	29
4	Making U-Turn	6	7	10	9	12	44
13	Passing	19	15	11	14	5	64
15	Other	28	11	21	20	19	99
6	Starting in Traffic Lane	30	23	24	16	20	113
12	Backing	18	15	23	36	21	113
10	Ran Off Road - Left	36	34	41	38	49	198
9	Ran Off Road - Right	46	46	47	53	44	236
2	Making Right-Turn	63	55	52	34	41	245
14	Changing Lanes	118	85	112	149	135	599
3	Making Left-Turn	149	155	147	132	110	693
5	Slowing or Stopping	234	153	210	238	198	1033
8	Stopped in Traffic Lane	288	292	274	302	262	1418
1	Going Straight Ahead	850	819	873	876	738	4156
	Totals	1913	1738	1857	1947	1675	9130

TABLE 13: 1999-2003 Annual Work Zone Crashes In VDOT Districts By Vehicle Maneuver

Code	Vehicle Maneuver Description	District	1999	2000	2001	2002	2003	5 Year Total
1	Going Straight Ahead	Bristol	102	116	77	54	31	380
1	Going Straight Ahead	Salem	58	104	91	110	91	454
1	Going Straight Ahead	Lynchburg	20	32	24	41	38	155
1	Going Straight Ahead	Richmond	230	158	152	144	123	807
1	Going Straight Ahead	Hampton Roads	229	157	179	176	171	912
1	Going Straight Ahead	Fredricksburg	7	15	11	17	22	72
1	Going Straight Ahead	Culpepper	20	30	28	21	16	115
1	Going Straight Ahead	Staunton	28	26	41	24	25	144
1	Going Straight Ahead	Northern Virginia	156	181	270	289	221	1117
Vehicle Maneuver 1 crashes			850	819	873	876	738	4156
2	Making Right Turn	Bristol	7	7	4	4	2	24
2	Making Right Turn	Salem	6	6	2	2	4	20
2	Making Right Turn	Lynchburg		1		3	3	7
2	Making Right Turn	Richmond	9	11	13	8	7	48
2	Making Right Turn	Hampton Roads	25	17	16	7	11	76
2	Making Right Turn	Fredricksburg	1			2	3	6
2	Making Right Turn	Culpepper	1		2	2		5
2	Making Right Turn	Staunton	1	2		1	1	5
2	Making Right Turn	Northern Virginia	13	11	15	5	10	54
Vehicle Maneuver 2 crashes			63	55	52	34	41	245
3	Making Left Turn	Bristol	14	19	5	6		44
3	Making Left Turn	Salem	5	15	15	18	10	63
3	Making Left Turn	Lynchburg	4	4	4	5	2	19
3	Making Left Turn	Richmond	43	40	38	37	24	182
3	Making Left Turn	Hampton Roads	48	45	41	38	36	208
3	Making Left Turn	Fredricksburg	1		1	1	5	8
3	Making Left Turn	Culpepper	9	7	7	1	1	25
3	Making Left Turn	Staunton	5	2	4	4	3	18
3	Making Left Turn	Northern Virginia	20	23	32	22	29	126
Vehicle Maneuver 3 crashes			149	155	147	132	110	693
4	Making U Turn	Bristol	1			1		2
4	Making U Turn	Salem			1		1	2
4	Making U Turn	Richmond		1	4	4	4	13
4	Making U Turn	Hampton Roads	3	3	3	1	4	14
4	Making U Turn	Northern Virginia	2	3	2	3	3	13
Vehicle Maneuver4 crashes			6	7	10	9	12	44
5	Slowing or Stopping	Bristol	26	16	10	13	10	75
5	Slowing or Stopping	Salem	12	27	21	30	34	124
5	Slowing or Stopping	Lynchburg	2	8	8	3	8	29
5	Slowing or Stopping	Richmond	51	19	31	35	29	165
5	Slowing or Stopping	Hampton Roads	97	23	36	40	38	234
5	Slowing or Stopping	Fredricksburg	6	1	2	3	7	19
5	Slowing or Stopping	Culpepper	4	5	15	15	10	49
5	Slowing or Stopping	Staunton	4	3	5	4	7	23
5	Slowing or Stopping	Northern Virginia	32	51	82	95	55	315
Vehicle Maneuver5 crashes			234	153	210	238	198	1033

TABLE 13: 1999-2003 Annual Work Zone Crashes In VDOT Districts By Vehicle Maneuver (CONTINUED)

Code	Vehicle Maneuver Description	District	1999	2000	2001	2002	2003	5 Year Total
6	Starting in Traffic Lane	Bristol	5	3	2	3	2	15
6	Starting in Traffic Lane	Salem	3	2	6	3	1	15
6	Starting in Traffic Lane	Lynchburg	2	3		3	3	11
6	Starting in Traffic Lane	Richmond	7	6	6	3	2	24
6	Starting in Traffic Lane	Hampton Roads	10	1	6	1	3	21
6	Starting in Traffic Lane	Fredricksburg	1				1	2
6	Starting in Traffic Lane	Culpepper		1	1			2
6	Starting in Traffic Lane	Staunton		2				2
6	Starting in Traffic Lane	Northern Virginia	2	5	3	3	8	21
Vehicle Maneuver 6 crashes			30	23	24	16	20	113
7	Starting from Parked Position	Bristol				1		1
7	Starting from Parked Position	Salem			1	1		2
7	Starting from Parked Position	Lynchburg		1	1	1		3
7	Starting from Parked Position	Richmond		3	1	1	1	6
7	Starting from Parked Position	Hampton Roads	2	1		4	1	8
7	Starting from Parked Position	Staunton		1				1
7	Starting from Parked Position	Northern Virginia	1	1	2	4		8
Vehicle Maneuver 7 crashes			3	7	5	12	2	29
8	Stopped in Traffic Lane	Bristol	35	30	32	20	10	127
8	Stopped in Traffic Lane	Salem	29	44	21	47	50	191
8	Stopped in Traffic Lane	Lynchburg	3	15	11	17	3	49
8	Stopped in Traffic Lane	Richmond	59	37	44	35	34	209
8	Stopped in Traffic Lane	Hampton Roads	82	49	51	47	52	281
8	Stopped in Traffic Lane	Fredricksburg	1	2	4	5	8	20
8	Stopped in Traffic Lane	Culpepper	13	14	4	11	6	48
8	Stopped in Traffic Lane	Staunton	5	10	24	3	15	57
8	Stopped in Traffic Lane	Northern Virginia	61	91	83	117	84	436
Vehicle Maneuver 8 crashes			288	292	274	302	262	1418
9	Ran Off Road - Right	Bristol	6	10	6	3	5	30
9	Ran Off Road - Right	Salem	4	9	8	10	5	36
9	Ran Off Road - Right	Lynchburg	2	3	3	4	1	13
9	Ran Off Road - Right	Richmond	12	8	8	4	4	36
9	Ran Off Road - Right	Hampton Roads	12	7	9	3	6	37
9	Ran Off Road - Right	Fredricksburg	1				1	2
9	Ran Off Road - Right	Culpepper	2	1	2	6	6	17
9	Ran Off Road - Right	Staunton	3	2	2	2	9	18
9	Ran Off Road - Right	Northern Virginia	4	6	9	21	7	47
Vehicle Maneuver 9 crashes			46	46	47	53	44	236
10	Ran Off Road - Left	Bristol	7	7	5	2	5	26
10	Ran Off Road - Left	Salem	3	6	4	2	12	27
10	Ran Off Road - Left	Lynchburg	2	2	3	1	2	10
10	Ran Off Road - Left	Richmond	4	3	2	3	8	20
10	Ran Off Road - Left	Hampton Roads	16	5	6	3	3	33
10	Ran Off Road - Left	Fredricksburg	1		1			2
10	Ran Off Road - Left	Culpepper	1			1	3	5
10	Ran Off Road - Left	Staunton		2	4	2	1	9
10	Ran Off Road - Left	Northern Virginia	2	9	16	24	15	66
Vehicle Maneuver 10 crashes			36	34	41	38	49	198

TABLE 13: 1999-2003 Annual Work Zone Crashes In VDOT Districts By Vehicle Maneuver (CONTINUED)

Code	Vehicle Maneuver Description	District	1999	2000	2001	2002	2003	5 Year Total
11	Parked	Bristol		1		1		2
11	Parked	Salem				1		1
11	Parked	Lynchburg			1			1
11	Parked	Richmond	3					3
11	Parked	Hampton Roads			1	1		2
11	Parked	Northern Virginia		1		2	1	4
Vehicle Maneuver 11 crashes			3	2	2	5	1	13
12	Backing	Bristol		2	3	4	1	10
12	Backing	Salem	2		2	5	5	14
12	Backing	Lynchburg	1	3	2	2		8
12	Backing	Richmond	5	2	4	5	3	19
12	Backing	Hampton Roads	2	2	4	3	4	15
12	Backing	Fredricksburg					1	1
12	Backing	Culpepper	1		1	2	1	5
12	Backing	Staunton	3	2	3	2	1	11
12	Backing	Northern Virginia	4	4	4	13	5	30
Vehicle Maneuver 12 crashes			18	15	23	36	21	113
13	Passing	Bristol	6	3	2	5	1	17
13	Passing	Salem	2	1	1			4
13	Passing	Lynchburg			1			1
13	Passing	Richmond	5	2	3			10
13	Passing	Hampton Roads	5	4		3		12
13	Passing	Culpepper		1		2		3
13	Passing	Staunton			1		2	3
13	Passing	Northern Virginia	1	4	3	4	2	14
Vehicle Maneuver 13 crashes			19	15	11	14	5	64
14	Changing Lanes	Bristol	16	12	7	9	2	46
14	Changing Lanes	Salem	9	8	15	15	10	57
14	Changing Lanes	Lynchburg	3	2	2		6	13
14	Changing Lanes	Richmond	33	12	20	21	12	98
14	Changing Lanes	Hampton Roads	30	15	9	22	21	97
14	Changing Lanes	Fredricksburg		2	1	3	3	9
14	Changing Lanes	Culpepper	2	4	3	6	2	17
14	Changing Lanes	Staunton	1	3	3		3	10
14	Changing Lanes	Northern Virginia	24	27	52	73	76	252
Vehicle Maneuver 14 crashes			118	85	112	149	135	599
15	Other	Bristol	1	1	2			4
15	Other	Salem	2	1	1		1	5
15	Other	Lynchburg	1		1		1	3
15	Other	Richmond	9	4	4	8	4	29
15	Other	Hampton Roads	9	3	7	2	4	25
15	Other	Fredricksburg			1		1	2
15	Other	Culpepper	1			1		2
15	Other	Staunton	1	1	2	1		5
15	Other	Northern Virginia	4	1	3	8	8	24
Vehicle Maneuver 15 crashes			28	11	21	20	19	99
16	Not Stated	Bristol	3	4				7
16	Not Stated	Salem		1				1
16	Not Stated	Lynchburg	1	2		3	2	8
16	Not Stated	Richmond	3	4	3	1	5	16
16	Not Stated	Hampton Roads	8	2	1	1	1	13
16	Not Stated	Fredricksburg	1				1	2
16	Not Stated	Culpepper	2					2
16	Not Stated	Staunton	1	1	1		9	12
16	Not Stated	Northern Virginia	3	5		8		16
Vehicle Maneuver 16 crashes			22	19	5	13	18	77
Total Number Of Vehicles In 1999-2003 Crashes								9130

TABLE 14: 1999-2003 Annual Work ZoneCrashes By Driver Age Groups

Code	DRIVER ACTION DESCRIPTION	DRIVER AGE										Total
		< 15	15 - 17	18 - 20	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	> 70	Not Stated	
38	Not Stated	1	12	14	51	47	48	25	14	8	42	262
37	Other Violations	3	13	34	87	70	54	36	14	25	9	345
07	Improper Passing of School Bus						1					1
04	Overtaking on Hill			1			1					2
19	Improper Start From Parked Position		1		1							2
28	Driving Without Lights			1				1				2
29	Improper Parking Location					1		1			1	3
36	Blinded By Lights					1	1		1			3
05	Overtaking on Curve				2		1		1			4
06	Overtaking at Intersection				2		1		1			4
30	Avoiding Pedestrian		1	1	1		1					4
13	Fail To Signal or Improper Signal			1	3					1		5
15	Improper Turn - Cut Corner on Left Turn			1	1	1	1	1				5
24	Fail to Stop At Through Highway - No Sign		1	2		1		1				5
35	Car Ran Away - No Driver										5	5
14	Improper Turn - Wide Right Turn			3	2	5	3					13
33	Crowded Off Roadway			2	3	3	4			1		13
32	Avoiding Animal		1	3	6	4	1	1				16
20	Disregarded Officer or Watchman			1	4	4	4	2	3	1		19
25	Drive Through Safety Zone		2	2	9	3	3	3	2	1	1	26
10	Wrong Side of Road - Not Overtaking		1	6	11	7	6	6	1		6	44
22	Disregarded Stop or Yield Sign		4	3	10	10	5	3	3	7	1	46
09	Other Improper Passing		1	2	9	8	11	11	2	2	2	48
16	Improper Turn From Wrong Lane		3	4	10	7	9	6	6	2	2	49
17	Other Improper Turning		2	5	6	14	8	10	4	5	1	55
18	Improper Backing			5	12	16	12	11	6		3	65
21	Disregarded Stop - Go Light		5	17	33	20	12	12	8	16	4	127
31	Avoiding Other Vehicle	2	7	15	46	35	26	19	6	3	1	160
34	Hit And Run	1	6	7	12	9	9	3		3	145	195
03	Exceeded Safe Speed		9	32	55	38	29	25	6	9	2	205
02	Exceeded Speed Limit		10	30	79	41	35	11	5	4		215
08	Cutting In		5	18	38	39	41	26	21	13	33	234
11	Did Not Have Right of Way		28	54	115	100	103	59	55	51	7	572
23	Driver Inattention	2	50	109	288	228	176	111	61	58	13	1096
12	Following Too Close		71	146	304	225	177	114	49	32	6	1124
01	None (Vehicles that got hit by other vehicle)	5	154	281	897	988	814	565	264	169	18	4155

TABLE 15: Driver Gender In 1999-2003 Annual Work Zone Crashes By Driver Age Groups

Code	Gender	Crash Year	Total Drivers	DRIVER AGE RANGE									
				<15	>70	15-17	18-20	21-30	31-40	41-50	51-60	61-70	not stated
1	Male	1999	1107	2	48	44	96	275	254	181	139	68	
1	Male	2000	1046	1	58	45	94	227	243	179	136	63	
1	Male	2001	1102	3	45	58	92	250	232	210	142	70	
1	Male	2002	1164	3	57	32	97	277	271	210	142	75	
1	Male	2003	1015		42	30	83	245	207	206	141	61	
No of male drivers in crashes			5434	9	250	209	462	1274	1207	986	700	337	0
2	Female	1999	740		32	36	68	186	167	144	72	35	
2	Female	2000	624		33	32	72	148	140	105	63	31	
2	Female	2001	696	1	34	49	53	161	149	134	71	44	
2	Female	2002	722		34	34	81	183	144	125	75	46	
2	Female	2003	600		25	27	63	143	118	103	81	40	
No of female drivers in crashes			3382	1	158	178	337	821	718	611	362	196	0
3	Unknown	1999	66		3						1		62
3	Unknown	2000	68										68
3	Unknown	2001	59	2				2					55
3	Unknown	2002	61	3			1						57
3	Unknown	2003	60										60
No of Driver Unknown Crashes			314	5	3	0	1	2	0	0	1	0	302

** 2 drivers in 1999 coded as 0 are grouped with the driver unknown category

**TABLE 16: Driver Gender In 1999-2003 Annual Work Zone Crashes
By Driver Age Groups In VDOT Districts**

Code	Gender	DISTRICT	DRIVER AGE RANGE									not stated	Total
			<15	>70	15-17	18-20	21-30	31-40	41-50	51-60	61-70		
1	Male	Bristol		44	19	35	106	103	94	71	36		508
1	Male	Salem		47	15	48	129	109	112	82	66		608
1	Male	Lynchburg		14	13	17	37	40	35	25	8		189
1	Male	Richmond		46	57	89	207	201	167	120	61		948
1	Male	Hampton Roads	3	38	50	121	303	276	195	113	66		1165
1	Male	Fredericksburg		3	2	8	22	17	10	12	4		78
1	Male	Culpeper		8	7	8	31	36	29	36	12		167
1	Male	Staunton		6	10	14	50	34	32	32	18		196
1	Male	Northern Virginia	6	44	36	122	389	391	312	209	66		1575
No of male drivers in crashes			9	250	209	462	1274	1207	986	700	337	0	5434
2	Female	Bristol		10	17	21	68	56	54	25	29		280
2	Female	Salem		21	27	45	79	67	59	56	33		387
2	Female	Lynchburg		10	8	10	34	27	23	15	9		136
2	Female	Richmond		38	47	67	163	142	130	67	36		690
2	Female	Hampton Roads	1	39	37	99	190	151	127	67	44		755
2	Female	Fredericksburg		4	5	5	20	12	6	6	2		60
2	Female	Culpeper		10	7	12	24	26	18	16	6		119
2	Female	Staunton		10	5	16	15	23	13	15	10		107
2	Female	Northern Virginia		16	25	62	228	214	181	95	27		848
No of female drivers in crashes			1	158	178	337	821	718	611	362	196	0	3382
3	Unknown	Bristol										22	22
3	Unknown	Salem		1								20	21
3	Unknown	Lynchburg										2	2
3	Unknown	Richmond		1								44	46
3	Unknown	Hampton Roads	5	1		1	2					63	72
3	Unknown	Fredericksburg										6	6
3	Unknown	Culpeper										10	10
3	Unknown	Staunton										6	6
3	Unknown	Northern Virginia										129	129
No of Driver Unknown Crashes			5	3	0	1	2	0	0	0	0	302	314
Total Number of Drivers In Work Zone Crashes													9130

** 2 crashes from District 4 (Richmond) coded as 0 are grouped with the Driver Unknown crashes in Richmond

**TABLE 17: Area In work Zone of 1999-2003 Annual Work Zone Crashes
By Collision Type**

Code	Collision Type	Crash Year	Advance Warning Area	Transition Area	Buffer Area	Activity Area	Termination Area	Not Stated	Total Crashes
01	Rear End	1999	32	34	3	225		126	420
01	Rear End	2000	35	12	1	192	2	125	367
01	Rear End	2001	33	28		210	4	132	407
01	Rear End	2002	26	28		262		139	455
01	Rear End	2003	24	29	4	172	3	131	363
Rear End Crashes			150	131	8	1061	9	653	2012
02	Angle	1999	3	2		78	1	103	187
02	Angle	2000	3			80	1	87	171
02	Angle	2001	4	6		90	2	93	195
02	Angle	2002	2	1		57	2	91	153
02	Angle	2003	3	4		54	4	80	145
Angle Crashes			15	13	0	359	10	454	851
03	Head On	1999				5		2	7
03	Head On	2000				5		1	6
03	Head On	2001				4		7	11
03	Head On	2002				3		4	7
03	Head On	2003				3		1	4
Head On Crashes			0	0	0	20	0	15	35
04	Sideswipe - Same	1999	3	22	1	70	2	27	125
04	Sideswipe - Same	2000	4	16	2	60		33	115
04	Sideswipe - Same	2001	2	16		55	1	36	110
04	Sideswipe - Same	2002	2	14	1	96		36	149
04	Sideswipe - Same	2003	4	17	2	63	3	35	124
Sideswipe - Same Crashes			15	85	6	344	6	167	623
05	Sideswipe - Opposite	1999				5		7	12
05	Sideswipe - Opposite	2000	1			9		4	14
05	Sideswipe - Opposite	2001				5		3	8
05	Sideswipe - Opposite	2002				5		3	8
05	Sideswipe - Opposite	2003		1		2		4	7
Sideswipe - Opposite Crashes			1	1	0	26	0	21	49
06	Fixed object in road	1999	1	3	3	29		14	50
06	Fixed object in road	2000	3		3	27		10	43
06	Fixed object in road	2001	2	5		33	1	12	53
06	Fixed object in road	2002	1	1	1	21		7	31
06	Fixed object in road	2003	2	3		28		16	49
Fixed object in road Crashes			9	12	7	138	1	59	226
07	Train	1999							
07	Train	2000				1			1
07	Train	2001							
07	Train	2002						1	1
07	Train	2003							
Train Crashes			0	0	0	1	0	1	2

**TABLE 17: Area In work Zone of 1999-2003 Annual Work Zone Crashes
By Collision Type (Continued)**

Code	Collision Type	Crash Year	Advance Warning Area	Transition Area	Buffer Area	Activity Area	Termination Area	Not Stated	Total Crashes
08	Non-Collision	1999				16		3	19
08	Non-Collision	2000				9		10	19
08	Non-Collision	2001				9		6	15
08	Non-Collision	2002	3			8		5	16
08	Non-Collision	2003		1		12		7	20
Non-Collision			3	1	0	54	0	31	89
09	Fixed object off road	1999	2	2	6	58		36	104
09	Fixed object off road	2000	2	5	7	51		37	102
09	Fixed object off road	2001				57		42	99
09	Fixed object off road	2002	1	2	4	65		34	106
09	Fixed object off road	2003		2		47	1	54	104
Fixed object off road Crashes			5	11	17	278	1	203	515
10	Deer	1999				4		8	12
10	Deer	2000	1			5		3	9
10	Deer	2001				1		6	7
10	Deer	2002	1			1		5	7
10	Deer	2003				2		5	7
Deer Crashes			2	0	0	13	0	27	42
11	Other Animal	1999				1			1
Other Animal Crashes			0	0	0	1	0	0	1
12	Pedestrian	1999				11		4	15
12	Pedestrian	2000	1			7		3	11
12	Pedestrian	2001	3			7		4	14
12	Pedestrian	2002	1	1		7		1	10
12	Pedestrian	2003	2			3		7	12
Pedestrian Crashes			7	1	0	35	0	19	62
15	Backed Into	1999			1	11		2	14
15	Backed Into	2000	2			8		3	13
15	Backed Into	2001	3			11		7	21
15	Backed Into	2002				15		7	22
15	Backed Into	2003	2			10		4	16
Backed Into Crashes			7	0	1	55	0	23	86
16	Miscellaneous or other	1999				8		3	11
16	Miscellaneous or other	2000				7		3	10
16	Miscellaneous or other	2001				3		2	6
16	Miscellaneous or other	2002				2		1	3
16	Miscellaneous or other	2003				7		3	10
Miscellaneous or other Crashes			0	0	0	27	0	12	40
5yr total crashes by location in WZ			214	255	39	2412	27	1685	4633

TABLE 18: Severity of 1999-2003 Annual Work Zone Crashes By Area In Work Zone

Code	Area In Work Zone	Crash Year	Fatal Pedestrian	Fatal Vehicular	Injury to Pedestrian	Injury Vehicular	Property Damage Only	5 yr Total Crashes
01	Advance warning area	1999				21	20	41
01	Advance warning area	2000			1	18	33	52
01	Advance warning area	2001	1	2	2	20	22	47
01	Advance warning area	2002			1	15	21	37
01	Advance warning area	2003			2	9	26	37
Advance warning area crashes			1	2	6	83	122	214
02	Transition Area	1999				18	45	63
02	Transition Area	2000				9	24	33
02	Transition Area	2001				15	40	55
02	Transition Area	2002			1	8	38	47
02	Transition Area	2003		2		15	40	57
Transition Area Crashes			0	2	1	65	187	255
03	Buffer Area	1999				1	13	14
03	Buffer Area	2000				5	8	13
03	Buffer Area	2002				3	3	6
03	Buffer Area	2003				1	5	6
Buffer Area Crashes			0	0	0	10	29	39
04	Activity Area	1999	1	4	10	191	315	521
04	Activity Area	2000		3	7	155	296	461
04	Activity Area	2001		5	7	202	271	485
04	Activity Area	2002	1	4	6	199	332	542
04	Activity Area	2003		3	3	142	255	403
Activity Area Crashes			2	19	33	889	1469	2412
05	Termination Area	1999				2	1	3
05	Termination Area	2000				2	1	3
05	Termination Area	2001				1	7	8
05	Termination Area	2002				1	1	2
05	Termination Area	2003				2	9	11
Termination Area Crashes			0	0	0	8	19	27
06	Unknown	1999	1	2	3	116	212	334
06	Unknown	2000		4	3	112	200	319
06	Unknown	2001	1	3	3	135	209	351
06	Unknown	2002		2	1	111	220	334
06	Unknown	2003	1	6	6	117	218	348
Crashes with location in WZ Unknown			3	17	16	591	1059	1686
5yr total crashes by severity			6	40	56	1646	2885	4633

TABLE 19: Severity of 1999-2003 Work Zone Crashes By Area In Work Zone In VDOT Districts

Code	Area In Work Zone	District	Total Crashes	Fatal Pedestrian	Fatal Vehicular	Injury to Pedestrian	Injury Vehicular	Property Damage Only
01	Advance warning area	Bristol	47			1	21	25
01	Advance warning area	Salem	58			1	22	35
01	Advance warning area	Lynchburg	9			1	5	3
01	Advance warning area	Richmond	17	1		1	5	10
01	Advance warning area	Hampton Roads	28				12	16
01	Advance warning area	Fredericksburg	4				2	2
01	Advance warning area	Culpeper	3		1			2
01	Advance warning area	Staunton	13		1		4	8
01	Advance warning area	Northern Virginia	35			2	12	21
Advance warning area crashes			214	1	2	6	83	122
02	Transition Area	Bristol	16			1	5	10
02	Transition Area	Salem	38				7	31
02	Transition Area	Lynchburg	4				1	3
02	Transition Area	Richmond	53				15	38
02	Transition Area	Hampton Roads	46		1		11	34
02	Transition Area	Fredericksburg	9					9
02	Transition Area	Culpeper	17				5	12
02	Transition Area	Staunton	4				2	2
02	Transition Area	Northern Virginia	68		1		19	48
Transition Area Crashes			255	0	2	1	65	187
03	Buffer Area	bristol	10				3	7
03	Buffer Area	saalem	2				1	1
03	Buffer Area	richmond	6					6
03	Buffer Area	Hampton roads	6				2	4
03	Buffer Area	Staunton	2					2
03	Buffer Area	Northern Virginia	13				4	9
Buffer Area Crashes			39	0	0	0	10	29
04	Activity Area	bristol	254		2	6	109	137
04	Activity Area	saalem	268		1		105	162
04	Activity Area	Lynchburg	77		1	2	28	46
04	Activity Area	richmond	442		4	6	152	280
04	Activity Area	Hampton roads	440		5	6	172	257
04	Activity Area	Fredericksburg	33			2	14	17
04	Activity Area	Culpepper	80	1	1	1	27	50
04	Activity Area	Staunton	83			1	24	58
04	Activity Area	Northern Virginia	734	1	5	9	258	461
04`	Activity Area	Staunton	1					1
Activity Area Crashes			2412	2	17	27	780	1332
05	Termination Area	bristol	1					1
05	Termination Area	saalem	4				2	2
05	Termination Area	Lynchburg	3				1	2
05	Termination Area	richmond	8				3	5
05	Termination Area	Hampton roads	5				1	4
05	Termination Area	Staunton	1					1
05	Termination Area	Northern Virginia	5				1	4
Termination Area Crashes			27	0	0	0	8	19
06	Unknown	bristol	90	1		1	39	49
06	Unknown	saalem	147		2		47	98
06	Unknown	Lynchburg	81	1	1		29	50
06	Unknown	richmond	330	1	5	6	97	221
06	Unknown	Hampton roads	486		4	2	189	291
06	Unknown	Fredericksburg	29		1		8	20
06	Unknown	Culpepper	53		1		18	34
06	Unknown	Staunton	66		1	1	20	44
06	Unknown	Northern Virginia	404		2	6	144	252
Crashes with Location in WZ Unknown			1686	3	17	16	591	1059
5yr totals crashes			4633	6	38	50	1537	2748